5644

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. 11 Office No. 5644

[redacted]

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

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

Field No. 11

REGISTER NO. 5644 T5644

State NEW JERSEY

General locality ~~OUTSIDE COAST — CAPE MAY COUNTY~~ Atlantic City

Locality STRATHMERE TO SEA ISLE CITY

Scale 1:10 000 Date of survey Photos 4-18-32 Compilation July, 1936

Vessel AIR PHOTO PARTY NO. 21.

Chief of party E. H. Kirsch

Surveyed by See data sheet in descriptive report

Inked by W. W. King

Heights in feet above ---- to ground to tops of trees

Contour, Approximate contour, Form line interval ---- feet

Instructions dated May 16th, 1935, 19

Remarks: ~~None~~ Compiled on scale of 1:10,000

SHEET 11
REGISTER No. 5644

PHOTOS NO.	Along Long.	Date
66-55-24 to 25 —	74° 39'	8-1-32
66- 8-48 to 53 —	74° 41'	4-18-32
66- 8-24 to 30 —	74° 44'	4-18-32
66- 8- 3 to 5 —	74° 46'	4-18-32
M 172 to 180 (871-14)	74° 40'	12.30 P.M. 1-23-33

Projection By L. C. Ripley 5-1-35

[redacted]

GENERAL INFORMATION

Statistics:

This compilation covers 24 square Miles (statute) of land area, 5 statute miles of Coast line, 7 statute miles of shoreline over 200 meters wide, and 31 statute miles of ~~shoreline~~ streams less than 200 meters wide. Datum N.A. 1927. Reference Station: Ocean

Latitude: 39° 10' 50.471" (1556.4 meters)
Longitude: 74° 44' 21.856" (524.6 meters)

GENERAL REPORT:

The area covered by this sheet is of the low coastal ~~plane~~ plain type with very little relief. Along the coast lies a narrow strip of low sandy area which is generally subdivided into streets and comprises Strathmere and Sea Isle City. Back of this narrow strip of land is a low marshy area interspersed with streams, bays, and the intracoastal waterway. Most of the marsh is drained by small ditches dug by the mosquito and pest control. Just back and parallel to the high ground runs N. J. State highway No. 4 on both sides of which are numerous cultivated areas and farm houses. The vegetation is generally deciduous and in some places appears to be a second growth. The two railroads that run approximately at right angles to the coast line have been abandoned and the tracks taken up. For these the usual railroad symbol has been used and dashed to show abandonment.

PHOTOGRAPHS:

There are portions of four overlapping flights for this compilation, all of which run generally north and south. The exact time the photos were taken is not available.

Photo Nos.	Along Long.	Date
66-~~8~~5-24 to 25	74° 39'	8-1-32
66-8-48 to 53	74° 41'	4-18-32
66-8-24 to 30	74° 44'	4-18-32
66-8-3 to 5	74° 46'	4-18-32

CONTROL

Sources:

Triangulation stations were established by Lieut. C. D. Meaney in 1932, and Lieut. J. A. Bond in 1936. The traverse stations were set by the N. J. Geod. Control Survey. They have been radial plotted and reported on form 524. All control is on N. A. 1927 datum.

ERRORS:

No errors in the control were found.

DESCREPANCIES:

The traverse by the N. J. Geod. Control Survey is the only control established by other organizations, and no descrepancies were found.

COMPILATION

METHOD:

The usual radial line method as described in "Notes on the compilation of planimetric line maps from 5 lens aerial photographs" was used in compiling this sheet.

ADJUSTMENTS OF THE PLOT:

No unsual adjustments of the plot were found necessary.

INTERPRETATION:

All the photos used in this compilation are fairly true to scale and the detail is generally clear. However, some of the shoreline of the small streams was a little indistinct looking through the celluloid. This difficulty was overcome by tracing this detail on the photos before detailing on the celluloid.

INFORMATION FROM OTHER SOURCES:

The high water line was established along the coast by field inspection by the compiler on Aug. 3rd, 1936. This was done by taping the distances at intervals along the coast from points visable on the ground and the photos, to the high water line. It will be seen that considerable erosion has taken place, especially in the vicinity of Strathmere.

All names on the overlay sheet are taken from U. S. C. & G. Survey chart No. 1217, State of N. J. Dept. of Conservation and development map No. 37, and highway maps.

CONFLICTING NAMES:

"Upper Thoro" on U. S. C. & G. Survey Chart No. 1217 is called "MAIN CHANNEL" on the State of N. J. Dept. of Conservation and development map No, 37.* Beach Thoro on U. S. C. & G. Survey chart No. 1217 is called "WHITE CREEK" on State of N. J. Dept. of conservation and development map No. 37. Names on the overlay sheet are shown according to the N. J. map. Geological quadrangle SEA ISLE also uses the names "MAIN CHANNEL" and "WHITE CREEK".

* Filed in Geog. Names.

COMPARISON WITH OTHER SURVEYS:

JUNCTIONS:

Satisfactory junctions have been made with the following sheets: Field Nos. 9& 10 Reg. 5642 & 5643 on the north, and sheet 12, reg. 5645 on the south.

*

Note The value of 9.3 ft differs with the U.S.C. 1935 list of Bridges which gives M.L.W. el. 9.5 ft − 4.2 ft mean range of Tide = 5.3 ft. el. at M.H.W. The value of 9.3 ft is accepted in view of the discussion on pages 13 to 15 of Report T.5286, ~~The~~ which states that

[redacted]

LANDMARKS:

A list of recoverable topographic stations are submitted herewith. A list of landmarks for charts will be submitted as a separate report at the close of the season, for the project. This list of landmarks has been submitted and is filed as chart letter 751-1936

BRIDGES:

The following data was obtained from field inspection:

LOCALITY	LAT.	LONG.	TYPE	VERT. CLEAR	HOR CLEAR
Corson Inlet Railroad	39° 12'	74° 39'	End swing	2.0 feet	31.0 feet
Strathmere Highway	39° 12'	74° 39'	Swing	*9.3 feet	31.8 feet
Sea Isle City Highway	39° 09'	74° 42'	2 leaf Bascule	8.2 feet	50 feet

Vertical clearance listed is at M. H. W. with the bridge closed.

RECOMMENDATION FOR FURTHER SURVEYS:

This compilation is believed to have a probable error of not more than .4 MM in position of well defined detail of importance for charting, and not more than .7 MM for other data.

To the best of my knowledge this sheet is complete in all detail of importance for charting, within the accuracy stated above, and no additional surveys are necessary.

Assisted by E. H. Kirsch Lt.(j.g.)
Chief of Party, U. S. C. & G. Survey.

E. H. Kirsch

Submitted by

W. W. King

	Remarks	Decisions
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		Whale Creek (See CS 126 M)
11		
12	Corson's Inlet on Prog. Mil. Map ~~only~~ AND Local Map	* Corsons Inlet name of another settlement so. of Strathmere on Local Map.
13		
14		
15		
16		
17		
18		
19		
20		
21		Location off sheet
22		
23		
24	Shown only on Prog. Mil. Map as Greenfield	
25		
26		
27		

M 234

GEOGRAPHIC NAMES

Survey No. T-5644

Name on Survey	A: On Chart No. 1217	B: On previous survey No. T-147	C: On U.S. quadrangle Maps	D	E: From local information	F: State of N.J. Dept. of Conservation On local Maps #31	G: P.O. Guide or Map	H: Rand McNally Atlas	K: U.S. Light List B.P. 14914	
Cedar Swamp Creek			✓		✓					1
Seaville	✓		✓		✓	✓				2
Corson Sound	✓		✓		Corsons Sd.					3
Middle Thorofare	Main Thoro-fare	✓	✓		✓				✓	4
Ben Hand's Thorofare	✓	Ben Hand's Thoro	✓		✓				✓	5
Main Channel	Upper Thoro-fare	Upper Thoro.	✓		✓				✓	6
Sea Isle Junction	✓		✓		✓	✓				7
Flat Creek	✓	Middle Thoro.	✓						Middle Thoro.	8
Burroughs Hole			✓						✓	9
White Creek	Beach Thoro-fare	Beach Thoro.	✓		✓				whale cr.	10
Whale Beach	✓		✓		✓					11
Strathmere	✓		Corson's Inlet		✓	✓				12
Atlantic Ocean	✓		✓							13
Ocean View	✓		✓			✓				14
Ludlam Bay	✓	Ludlam's Bay	✓		Ludlams Bay	Ludlam Sound				15
Ludlam Beach	✓	Ludlam's Beach	✓							16
Ludlam Thorofare	✓	Ludlam's Thoro.	✓							17
Sea Isle City	✓		✓		✓	✓				18
add										19
Great Cedar Swamp			✓		✓					20
Formosa Beds	✓		✓		Formosa Bog					21
Swimming Creek		✓	✓		✓					22
~~Beach Creek~~			✓							23
Greenfield			✓		✓	✓				24
										25
	Names underlined in red approved									26
	by GFL on 12/8/36									27

M 234

M-350

T-5644

PLANE COORDINATE GRID SYSTEM

Positions of grid intersections used for fitting the grid to this compilation were computed by Division of Geodesy and the computation forms are included in this report.

Positions plotted by R. E. Ask

Positions checked by R. E. Ask

Grid inked on machine by R. E. Ask

Intersections inked by _____

Points used for plotting grid:

x 1,975,000 ft. y 145,000	x 1,990,000 y 140,000
x 1,975,000 y 130,000	x 1,990,000 y 120,000
x 1,990,000 y 130,000	x y
x 2,000,000 y 130,000	x y

Triangulation stations used for checking grid:

X=1,979,380.10 Y=126,516.83

1. Ocean 1932 (ref. sta)
2. Strathmere 1932
3. Whale 1932
4. S.P. Sea Isle City 1932
5. Sea Isle 1932
6. _____
7. _____
8. _____

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DEPARTMENT OF COMMERCE
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Ed. May 1935

T= 5644

GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

STATE N. J. STATION

x	1,975,000.00	$\log S_g$	4.397939 84
K	2,000,000.00	$\log (1200/3937)$	9.4840158 3
x' $(=x-K)$	−25,000.00	$\log (1/R)$	1.0846
$x'^3/(6\rho_o^2)_g$	−.01	$\log S_m$	3.8819665 3
S_g	−24,999.99	cor. arc to sine	−10
		$\log S_1$	3.8819664 3
3 log x'	13.1938 2003	$\log A$	8.5091 3
$\log 1/(6\rho_o^2)_g$	4.5810213	$\log \sec \phi$	0.1109237
$\log x'^3/(6\rho_o^2)_g$	7.7748413	$\log \Delta\lambda_1$	2.5820 2
		cor. sine to arc	+17
$\log S_m^2$	7.7639330 6	$\log \Delta\lambda$	2.5020 2
$\log C$	1.3165 44	$\Delta\lambda$	317.70
$\log \Delta\phi$	9.0604777		
y	145,000.00		
ϕ' (by interpolation)	39 13 53.2428	λ (central mer.)	74 40 00.0000
$\Delta\phi$	−.1204	$-\Delta\lambda$	+ 5 17.70
ϕ	39 13 53.1224	λ	74 45 17.70
	163.81 mm.		42.48 mm.

Explanation of form:

$x'=x-K$

$S_g=x'-\frac{x'^3}{(6\rho_o^2)_g}$

$S_m=\frac{1}{R}\left(\frac{1200}{3937}\right)S_g$

R=scale reduction factor

ϕ' is interpolated from table of y

$\Delta\phi=C\,S_m^2$

$\phi=\phi'-\Delta\phi$

$\Delta\lambda_1=S_1 A \sec\phi$

$\log S_1=\log S_m-$cor. arc to sine

$\log \Delta\lambda=\log \Delta\lambda_1+$cor. arc to sine

$\lambda=\lambda$ (central mer.)$-\Delta\lambda$

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GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

STATE N. J. STATION

x	1,975,000.00	$\log S_g$	4.397939 84
K	2,000,000.00	$\log (1200/3937)$	9.484015 83
x' $(=x-K)$	−25,000.00	$\log (1/R)$	1086
$x'^3/(6\rho_o^2)_g$	−.01	$\log S_m$	3.881766 53
S_g	−24,999.99	cor. arc to sine	− 10 6643
		$\log S_1$	3.881766 43
3 log x'	13.193820 03	$\log A$	8.509138 89
$\log 1/(6\rho_o^2)_g$	4.561021 3	$\log \sec \phi$	0.110669 07
$\log x'^3/(6\rho_o^2)_g$	7.754841 3	$\log \Delta\lambda_1$	2.501774 39
		cor. sine to arc	+ 17
$\log S_m^2$	7.763933 06	$\log \Delta\lambda$	2.501774 56
$\log C$	1.316144	$\Delta\lambda$	317.5225
$\log \Delta\phi$	9.080279		
y	130,000.00		
ϕ' (by interpolation)	39 11 24.5985	λ (central mer.)	74 40 00.0000
$\Delta\phi$	−.120547	$\Delta\lambda$	+ 5 17.5225
ϕ	39 11 24.8605	λ	74 45 17.5225
	76.67 mm.		42.06 mm

Explanation of form:

$x'=x-K$

$S_g=x'-\frac{x'^3}{(6\rho_o^2)_g}$

$S_m=\frac{1}{R}\left(\frac{1200}{3937}\right)S_g$

R=scale reduction factor

ϕ' is interpolated from table of y

$\Delta\phi=C\,S_m^2$

$\phi=\phi'-\Delta\phi$

$\Delta\lambda_1=S_1 A \sec\phi$

$\log S_1=\log S_m-$cor. arc to sine

$\log \Delta\lambda=\log \Delta\lambda_1+$cor. arc to sine

$\lambda=\lambda$ (central mer.)$-\Delta\lambda$

U. S. GOVERNMENT PRINTING OFFICE 11—11531

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Ed. May 1935

T-5644

GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

STATE N. J. STATION

x	1,990,000.00	$\log S_g$	4.000000000
K	2,000,000.00	$\log (1200/3937)$	9.484015833
x' $(=x-K)$	− 10,000.00	$\log (1/R)$	1.0486
$x'^3/(6\rho_o^2)_g$	− .00	$\log S_m$	3.484026669
S_g	− 10,000.00	cor. arc to sine	− 2
		$\log S_1$	3.484026667
3 log x'	12.000000000	$\log A$	8.509138854
$\log 1/(6\rho_o^2)_g$	4.581021333	$\log \sec \phi$	0.111665924
$\log x'^3/(6\rho_o^2)_g$	6.581021333	$\log \Delta\lambda_1$	2.103834480
		cor. sine to arc	+ 3
$\log S_m^2$	6.968053338	$\log \Delta\lambda$	2.103834833
$\log C$	1.316811111	$\Delta\lambda$	127.00911
$\log \Delta\phi$	8.284866449		
y	130,000.00		
ϕ' (by interpolation)	39° 11′ 24.98095	λ (central mer.)	74° 40′ 00.00000
$\Delta\phi$	− .01932	$\Delta\lambda$	+ 2′ 07.00911
ϕ	39° 11′ 24.96163	λ	74° 42′ 07.00911
	76.98 mm.		16.83 mm

Explanation of form:

$x'=x-K$

$S_g=x'-\dfrac{x'^3}{(6\rho_o^2)_g}$

$S_m=\dfrac{1}{R}\left(\dfrac{1200}{3937}\right)S_g$

R=scale reduction factor

ϕ' is interpolated from table of y

$\Delta\phi=C\,S_m^2$

$\phi=\phi'-\Delta\phi$

$\Delta\lambda_1=S_1 A \sec\phi$

$\log S_1=\log S_m-$cor. arc to sine

$\log \Delta\lambda=\log \Delta\lambda_1+$cor. arc to sine

$\lambda=\lambda$ (central mer.)$-\Delta\lambda$

U. S. GOVERNMENT PRINTING OFFICE 11—11521

Form No. 743
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Ed. May 1935

GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

STATE New Jersey STATION T-5644

x	2,000 000.00	$\log S_g$	—
K		$\log (1200/3937)$	9.4840158 3
x' $(=x-K)$	0.00	$\log (1/R)$	
$x'^3/(6\rho_o^2)_g$	—	$\log S_m$	
S_g		cor. arc to sine	—
		$\log S_1$	
$3 \log x'$	0.0	$\log A$	
$\log 1/(6\rho_o^2)_g$	4.5810213 -20	$\log \sec \phi$	
$\log x'^3/(6\rho_o^2)_g$		$\log \Delta\lambda_1$	
		cor. sine to arc	+
$\log S_m^2$	—	$\log \Delta\lambda$	—
$\log C$	1.916	$\Delta\lambda$	"
$\log \Delta\phi$	—		
y	130 000.00		
ϕ' (by interpolation)	39° 11' 24.9809"	λ (central mer.)	74° 40' "
$\Delta\phi$	—	$\Delta\lambda$	0
ϕ	39 11 24.9809	λ	74 40 00.000
	77.04 mm		—

Explanation of form:

$x'=x-K$

$S_g=x'-\frac{x'^3}{(6\rho_o^2)_g}$

$S_m=\frac{1}{R}\left(\frac{1200}{3937}\right)S_g$

R=scale reduction factor

ϕ' is interpolated from table of y

$\Delta\phi=C\,S_m^2$

$\phi=\phi'-\Delta\phi$

$\Delta\lambda_1=S_1 A \sec\phi$

$\log S_1=\log S_m-$cor. arc to sine

$\log \Delta\lambda=\log \Delta\lambda_1+$cor. arc to sine

$\lambda=\lambda$ (central mer.)$-\Delta\lambda$

U. S. GOVERNMENT PRINTING OFFICE 11—11521

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GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

STATE New Jersey STATION T-5644-

x	1,990 000.00	$\log S_g$	4. 0
K	2 000 000 00	$\log (1200/3937)$	9.4840 1583
x' $(=x-K)$	-10,000.00	$\log (1/R)$	1086
$x'^3/(6\rho_o^2)_g$	— 0	$\log S_m$	3.4840 2669
S_g	-10,000.00	cor. arc to sine	— 2
		$\log S_1$	3.4840 2667
3 log x'	2.	$\log A$	8.5091 3819
$\log 1/(6\rho_o^2)_g$	4.5810 213-20	$\log \sec \phi$	0.1108 3900
$\log x'^3/(6\rho_o^2)_g$		$\log \Delta\lambda_1$	2.1040 0386
		cor. sine to arc	+ 3
$\log S_m^2$	6.9680 5338	$\log \Delta\lambda$	2.1040 0389
$\log C$	7.3116333	$\Delta\lambda$	127.0585
$\log \Delta\phi$	8.2843 8638		
y	140 000.00		
ϕ' (by interpolation)	39° 13′ 03.8223	λ (central mer.)	74° 40′ "
$\Delta\phi$	— 0.0192	$\Delta\lambda$	+ 2 07.0585
ϕ	39 13 03.8031	λ	74 42 07.0585
	11.73 mm		16.94 mm

Explanation of form:

$x'=x-K$

$S_g=x'-\frac{x'^3}{(6\rho_o^2)_g}$

$S_m=\frac{1}{R}\left(\frac{1200}{3937}\right)S_g$

R=scale reduction factor

ϕ' is interpolated from table of y

$\Delta\phi=C\,S_m^2$

$\phi=\phi'-\Delta\phi$

$\Delta\lambda_1=S_1 A \sec\phi$

$\log S_1=\log S_m-$cor. arc to sine

$\log \Delta\lambda=\log \Delta\lambda_1+$cor. arc to sine

$\lambda=\lambda$ (central mer.)$-\Delta\lambda$

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GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

STATE New Jersey STATION T-5644

x	1,990 000.00	$\log S_g$	
K	2 000 000.00	$\log (1200/3937)$	9.48401583
x' $(=x-K)$	-10,000.00	$\log (1/R)$	
$x'^3/(6\rho_o^2)_g$	—	$\log S_m$	3.48402669
S_g		cor. arc to sine	— 2
		$\log S_1$	3.48402667
$3 \log x'$		$\log A$	8.50913958
$\log 1/(6\rho_o^2)_g$		$\log \sec \phi$	0.11049966
$\log x'^3/(6\rho_o^2)_g$		$\log \Delta\lambda_1$	2.10366591
		cor. sine to arc	+ 3
$\log S_m^2$	6.96805338	$\log \Delta\lambda$	2.10366594
$\log C$	1.31549	$\Delta\lambda$	126.″9597
$\log \Delta\phi$	8.28355238		
y	120 000		
ϕ' (by interpolation)	39° 09′ 46.″1391	λ (central mer.)	74° 40′ ″
$\Delta\phi$	— 0.0192	$\Delta\lambda$ +	206.9597
ϕ	39 09 46.1199	λ	74 42 06.9597
	142.23 mm		16.71 mm

Explanation of form:

$x'=x-K$

$S_g=x'-\dfrac{x'^3}{(6\rho_o^2)_g}$

$S_m=\dfrac{1}{R}\left(\dfrac{1200}{3937}\right)S_g$

R=scale reduction factor

ϕ' is interpolated from table of y

$\Delta\phi=C\,S_m^2$

$\phi=\phi'-\Delta\phi$

$\Delta\lambda_1=S_1 A \sec\phi$

$\log S_1=\log S_m-$cor. arc to sine

$\log \Delta\lambda=\log \Delta\lambda_1+$cor. arc to sine

$\lambda=\lambda$ (central mer.)$-\Delta\lambda$

U. S. GOVERNMENT PRINTING OFFICE 11—11521

OFFICE

REVIEW OF AIR PHOTO COMPILATION T-5644
Scale 1:10,000

Comparison with Previous Topographic Surveys

This compilation, T-5644, is adequate to supersede the previous topographic surveys in this area over the common area except as noted below:

T- 147 (1842), 1:10,000
T-1597 (1885), 1:20,000 - Except for form lines
T-2453 (1899), 1:20,000
H-2165 (1891), 1:20,000

There is good general shoreline agreement between these old surveys and T-5644, however there have been numerous changes in detail.

Hydrographic and graphic control surveys as ~~requested~~ required for hydrographic control are contemplated for this area in 1937. Corrections and additions to T-5644 as a result of these surveys will be made when this work is completed.

Comparison with Charts 1217 and 3243

This compilation shows numerous corrections to shoreline and interior detail on the present charts.

The two small islands shown on the charts at lat. 39° 12.0', long. 74° 40.8' and also at lat. 39° 10.9', long. 74° 41.7' are not visible on the photographs and no longer exist as islands.

See page 3 of descriptive report regarding landmarks.

Descriptions of Topographic Stations on Form 524.

Descriptions were checked against compilation and found correct except for the following:

The descriptions of stations N. J. Geod. S. 2723 and 2724 as given by New Jersey Geodetic Survey did not correspond to description given by U. S. C. & G. S. field inspection party. A letter will be sent to the New Jersey Geodetic Survey to determine which of the two sets of descriptions are correct. The positions plotted on compilation T-5644 are those of the U.S.C. & G.S. field inspection party.

Determination of Low Water Line

A strip of outer coast photographs Nos. M (172 to 180) 871-14 taken at 12:30 p.m. on Jan. 23, 1933 for the U. S. Beach Erosion Board were used to determine the low water line. These photographs were taken at approx. low tide.

These photographs were not used in the radial plot but were used for examination of detail along the coast line.

Feb. 9, 1937.

R. E. Ask

R. E. Ask

V.B.G. Jones

REVIEW OF AIR PHOTO COMPILATION NO.

Chief of Party: E. H. Kirsch Compiled by: W. W. King

Project: H. T. 205 Instructions dated: May 16th, 1935

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b,c,d,e,g and i; 26; and 64)

2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n)

3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d,e)

4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)

5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.

6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c,h,i)

7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

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

✓8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

✓9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)

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

✓11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)

✓12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)

✓13. The geographic datum of the compilation is N. A. 1927 unadjusted and the reference station is correctly noted.

✓14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)

✓15. The drafting is satisfactory and particular attention has been given the following:

1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.

2. The degrees and minutes of Latitude and Longitude are correctly marked.

3. All station points are exactly marked by fine black dots.

4. Closely spaced lines are drawn sharp and clear for printing.

5. Topographic symbols for similar features are of uniform weight.

6. All drawing has been retouched where partially rubbed off.

7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

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

16. No additional surveying is recommended at this time.

17. Remarks: None

18. Examined and approved;

E. H. Kusch.
Chief of Party

19. Remarks after review in office:

Reviewed in office by: R. E. Ask R.G. Jones

Examained and approved:

C. K. Green.
Chief, Section of Field Records

Fred. L. Peacock
Chief, Section of Field Work

L. O. Colbert
Chief, Division of Charts

G. Rude
Chief, Division of Hydrography and Topography.

N.J. Work
Field data

60/SM

February 16, 1937.

Mr. Arthur Noack,
State Supervisor,
New Jersey Geodetic Control Survey,
17-19 William Street,
Newark, New Jersey.

N.J. Mon. S. 2724 and 2723 have been removed from compilation as they conflict with the location given by Mr. Kirsch and the attached correspondence is confusing.

Dear Sir:

I am enclosing a section of airphoto compilation T 5644, together with descriptions of New Jersey Geodetic Control Stations Nos. 2723 and 2724, as submitted by your project and as transmitted by a Coast and Geodetic Survey field party working under the direction of Lieutenant E. Kirsch.

You will notice the discrepancies in the descriptions as submitted by you and those submitted by the Coast and Geodetic Survey party. Station No. 2723 is described by your party as being 300 ft. northeast of Sea Isle City Blvd., while Mr. Kirsch's party states the mark is 1 ft. north of the extension of the center line of the Sea Isle City Blvd.

The description of Mark No. 2724, as submitted by your party, states the mark is on the northwest side of the road and 63.9 ft. northeast of telephone pole No.3193. Mr. Kirsch's party, on the other hand, states that the mark is on the east side of State Highway No. 4 and 62.2 ft. south of pole No. 3193.

Would it be possible for you to check up the description of these two marks by an actual visit to the site, and report to this office in the very near future the correct description data.

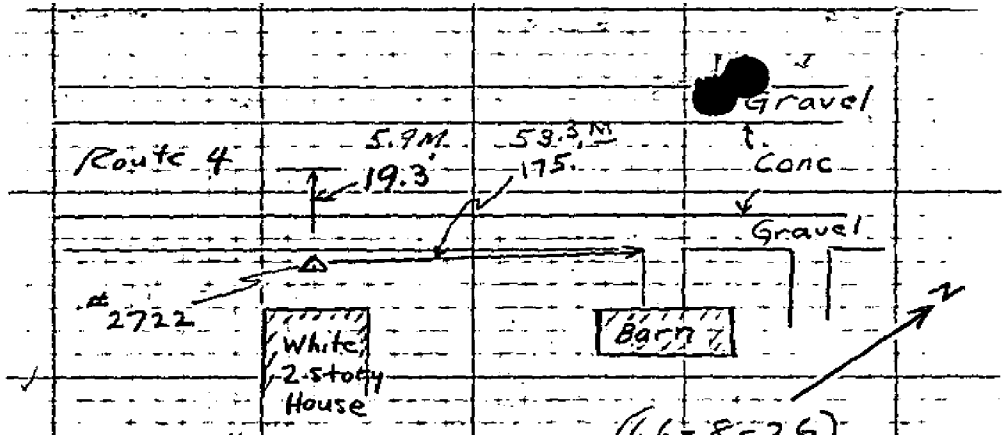
Very truly yours,

(Signed) PAUL C. WHITNEY

Acting Director.

Enclosures.

CC - Prof. Kissam



E.R.A. #2722 (66-8-26)

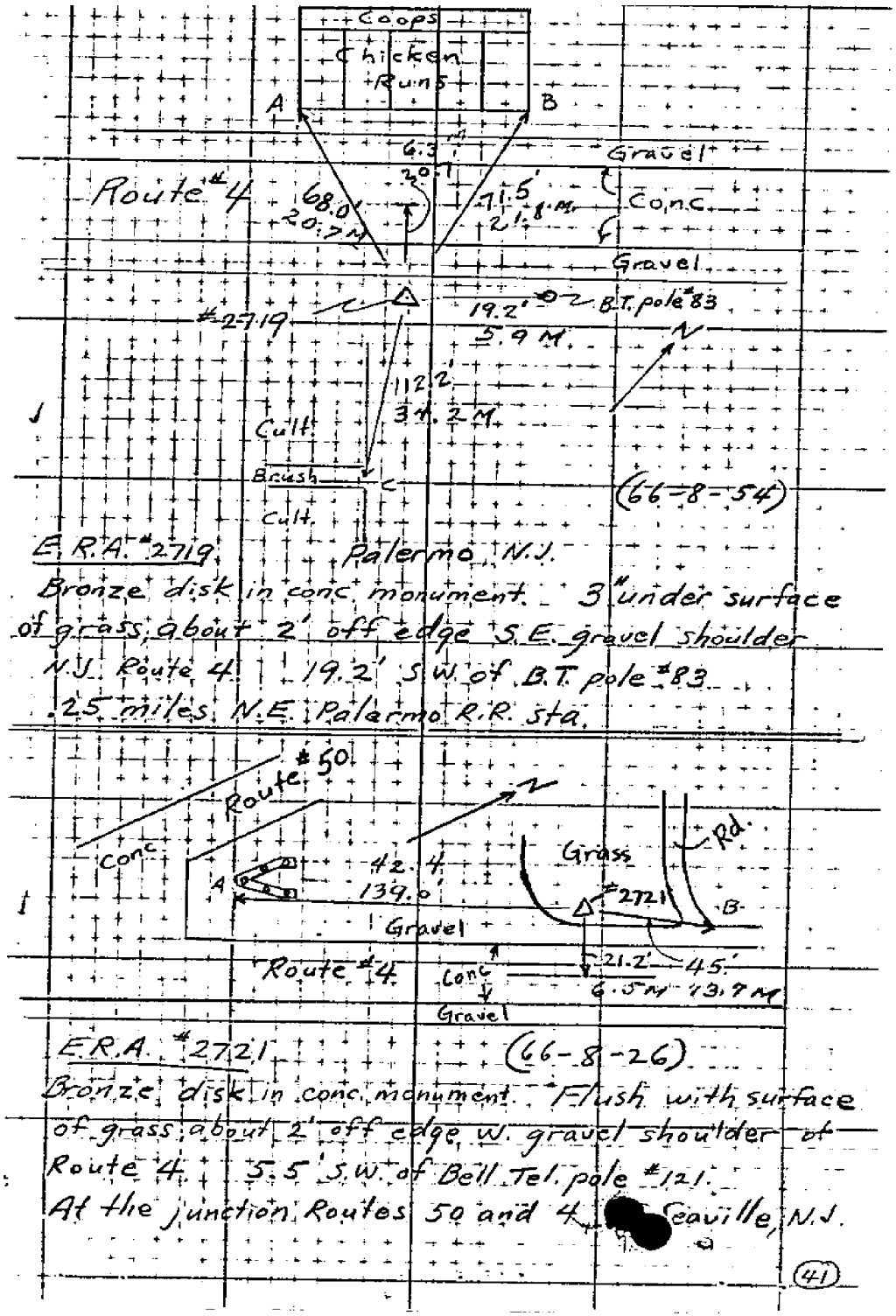
Seaville, N.J.

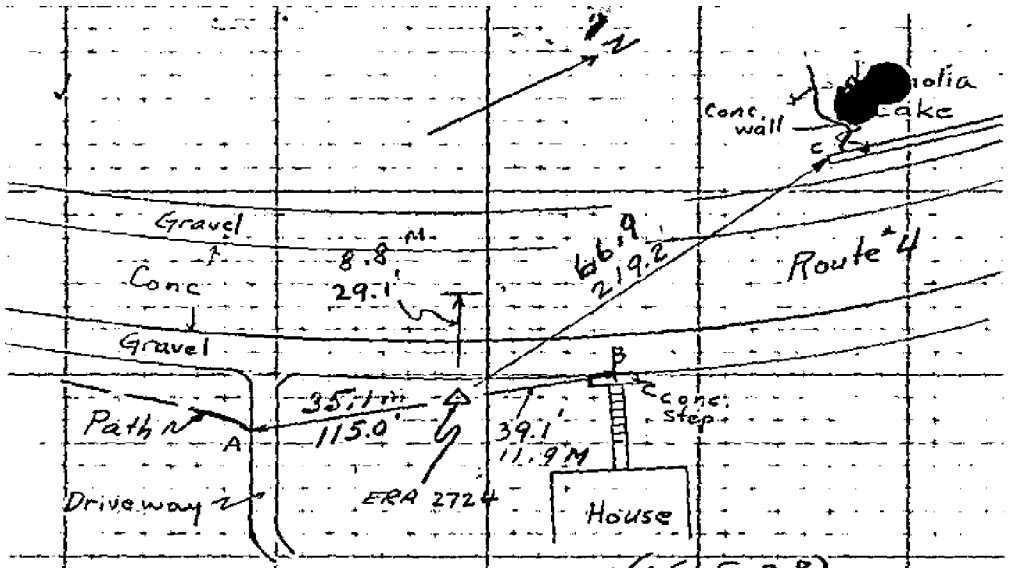
Bronze disk in conc. monument. Flush with surface grass about 1' off edge of east shoulder Route 4, directly in front of white two-story house. 39.6' N. of A.C. pole #3171. .3 miles south of junct. with Route 50.

E.R.A. #2723 (66-8-28)

Ocean View, N.J. Bronze disk in concrete monument. Flush with grass. On N.W. side Route 4, about 1' north of extension of ℄ of road to Sea Isle City. 7.8' N.W. of corner of large vertical green direction sign (To Sea Isle City) 35.2' N.W. of ℄ Route 4.

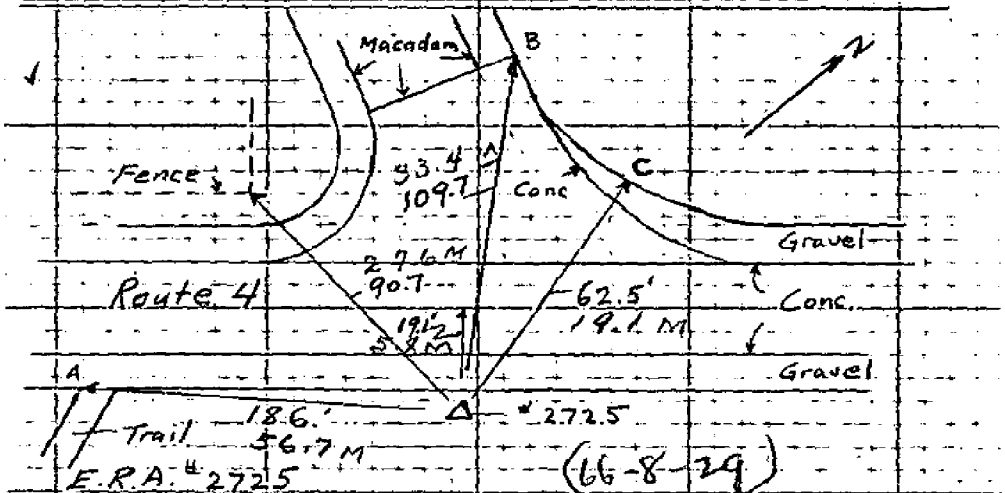
10.7m


Coops
Chicken
Runs
A
B
Gravel
Route #4
68.0
20.7 M
20°
71.5'
21.8 M
Conc.
Gravel
#2719
19.2'
B.T. pole #83
5.9 M.
112.2'
34.2 M.
Cult.
Brush
Cult.
(66-8-54)
E.R.A. #2719 Palermo N.J.
Bronze disk in conc. monument. 3" under surface of grass, about 2' off edge S.E. gravel shoulder N.J. Route 4 19.2' S.W. of B.T. pole #83
.25 miles N.E. Palermo R.R. sta.
Route #50
Conc.
42.4
139.0'
Grass
Rd.
#2721
Gravel
21.2'
45'
6.5 M
13.7 M
Route #4
Conc.
Gravel
E.R.A. #2721 (66-8-26)
Bronze disk in conc. monument. Flush with surface of grass about 2' off edge W. gravel shoulder of Route 4 5.5' S.W. of Bell Tel. pole #121.
At the junction Routes 50 and 4 [redacted] Seaville, N.J.



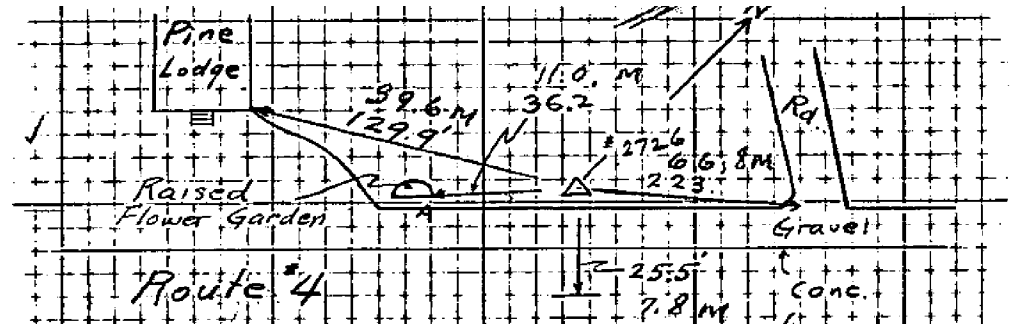
E.R.A # 2724 Ocean View, N.J. (66-8-28)

Bronze disk in concrete monument. Flush with grass at foot of grass terrace, on east side Route 4. .35 miles south of road to Sea Isle City. 62.2 South of Bell Telephone pole #3193.



E.R.A. # 2725 (66-8-29)

Bronze disk in concrete monument. Flush with surface about 1.5' off edge S.E. gravel shoulder of Route 4, and about 10.' S.W. of extension of ℄ of road to South Seaville, N.J. .5 miles south of road to Sea Isle City.



Route #4

E.R.A. #2726 (66-8-29)

Bronze disk in conc. mon. Flush with surface of grass about 9 off edge N.W. gravel shoulder Route 4 129.9 N.E. of corner of Pine Lodge. .3 miles south of road to South Seaville.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
Form 524
Rev. May 1934

DESCRIPTION OF RECOVERABLE HYDROGRAPHIC OR TOPOGRAPHIC STATION

Name N. J. Geod. S. No. 2724
General locality N. J. Cape May County
Locality Dennis Twp. Ocean View
Chief of party E. H. Kirsch
Scaled by W. W. K.
Checked by F. H. M.

Year 1935
Sheet No. 5644
Datum: N. A. 1927

	°	′	Meters
Lat.	~~39~~	~~10~~	~~622.7~~
Long.	~~74~~	~~44~~	~~370.0~~

Approximate elevation above high watermark _____ feet omitted from Comp'lt

Location method: Plane table Sextant Theodolite Air photocompilation

Detailed description:

Cape May Co.
1935

LOCAL CONTROL SURVEY

STATE OF NEW JERSEY

DESCRIPTION OF MONUMENTS

Mon. #2723: (R.M.#2 to Triangulation Station Ocean) Ocean View, Dennis Twp., Cape May Co. N.J. A standard U.S.C.&G.S.A.S. disk set in concrete, on State Highway Route #4 about 300. ft. northeast of Sea Isle City Blvd. (Co Rte. #35). It is located on the northwest side of the road, at a curve, and 0.37 ft. above the ground.
The monument is 25.8 ft. northwest of the center line of Route #4; 87.9 ft. east of the east corner of the house of Pasqualle Conuso; and 78.4 ft. southeast of the north corner of the same house. Companion monument #2724 is ft. southwest.

Mon. #2724: Ocean View, Dennis Twp., Cape May Co. N.J. A standard U.S.C.&G.S.A.S. disk, set in concrete, on State Highway Route #4 at Magnolia Lake about 0.35 miles southwest of the Sea Isle City Blvd. (Co, Rte #35). It is located on the northwest side of the road, just southwest of the retaining wall at the lake, and 0.35 ft. above the ground.
The monument is 27.8 ft. northwest of the center line of the road; 48.9 ft. southeast of a pole #3194; and 63.9 ft. northeast of a pole #3193. Companion monument #2723 is ft. northeast.

N.J. Grid Bearing: Mon. #2723 to Mon. #2724 is Questioned

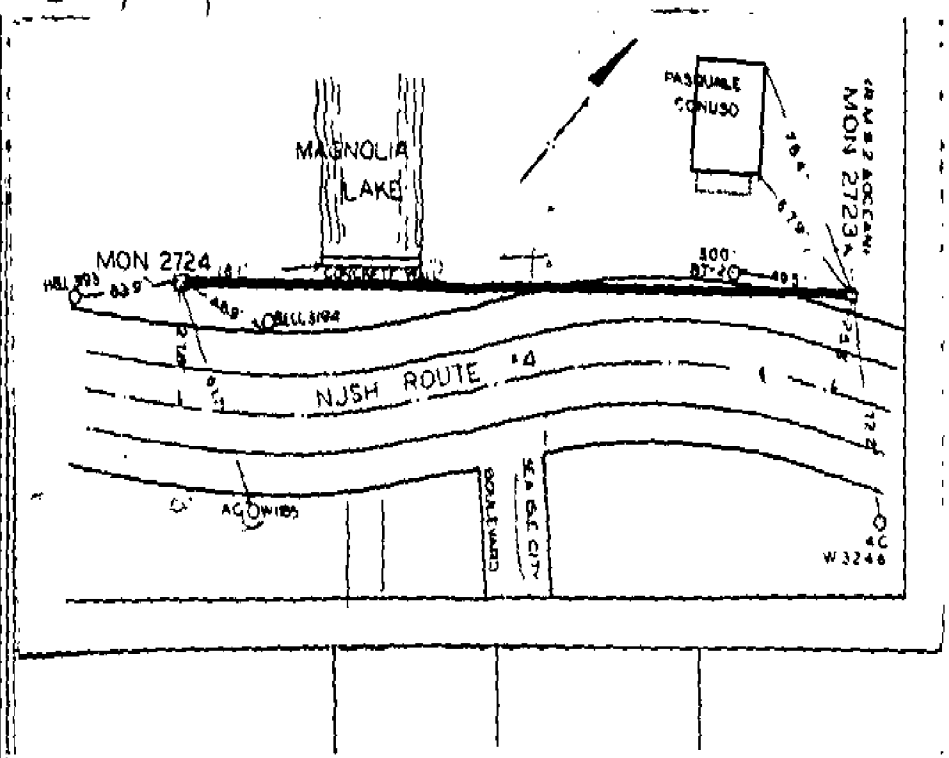
Mon. #2723: feet
Elevation:
x-coord:(east)
y-coord:(north)

Mon. #2724: feet
Elevation:
x-coord:(east)
y-coord:(north)

Sketch for shore-line data and reference points:

N. J. Geod. S. No. 2723

39 - 10 - 1085.3
74 - 44 - ~~1683.8~~ 68.0 ?



ances actually obtained in the field.

Hydrographic Manual, paragraph 167; Circular No. 30, 1933. 0 P 0 11--11357

WORKS PROGRESS ADMINISTRATION

NEW JERSEY

17-19 William Street
Newark, N.J.

WILLIAM H. J. ELY
STATE ADMINISTRATOR

Project 10-172
(DISTRICT OR DIVISION)

May 7, 1937

To the Director
U.S. Coast & Geodetic Survey
Washington, D. C.

Attention: Lieutenant H. W. Hemple

Dear Sir:

With reference to the discrepancies in descriptions of monuments #2723-2724 in CapeMay County about which you inquired in letters of Feb. 16th and March 24, we have had a little difficulty in ascertaining just what had occurred, but the answer is now at hand.

The descriptions of this pair of monuments as shown on the blueprint attached are correct for the final location. Monument 2724 was moved some time ago from its former position southeast of Rte. #4, while Monument 2723 as originally set was destroyed, and the number assigned to reference disk #2 for station Ocean.

Unfortunately we are unable to establish the former positions of these monuments which may have been used by Lieutenant Kirsh in his aerial mapping.

Very truly yours,

ARTHUR NOACK, State Supervisor
N.J. Geodetic Control Survey

By: Howard B. Ranken
Assistant State Supervisor

HBR:hkc
Encl.

Lt. Kirsh's position of 2724 and 2723 are probably correct but in view of the above correspondence they have been questioned

Cape May Co.
1935

LOCAL CONTROL SURVEY

STATE OF NEW JERSEY

DESCRIPTION OF MONUMENTS

Mon. #2723: (N.G. #2 to Triangulation Station Ocean) Ocean View, Dennis Twp., Cape May Co. N.J. A standard U.S.C.&G.S.&S.S. disk set in concrete, on State Highway Route #4 about 300. ft. northeast of Sea Isle City Blvd. (Co. Rte. #25). It is located on the northwest side of the road, at a curve, and 0.67 ft. above the ground.

The monument is 25.8 ft. northwest of the center line of Route #4; 37.9 ft. east of the east corner of the house of Pasqualle Conuso; and 78.4 ft. southeast of the north corner of the same house. Companion monument #2724 is ft. southwest.

Mon. #2724: Ocean View, Dennis Twp., Cape May Co. N.J. A standard U.S.C.&G.S.&S.S. disk, set in concrete, on State Highway Route #4 at Magnolia Lake about 0.25 miles southwest of the Sea Isle City Blvd. (Co. Rte. #25). It is located on the northwest side of the road, just southwest of the retaining wall at the lake, and 0.33 ft. above the ground.

The monument is 27.8 ft. northwest of the center line of the road; 48.9 ft. southwest of a pole #3194; and 63.9 ft. northeast of a pole #3193. Companion monument #2723 is ft. northeast.

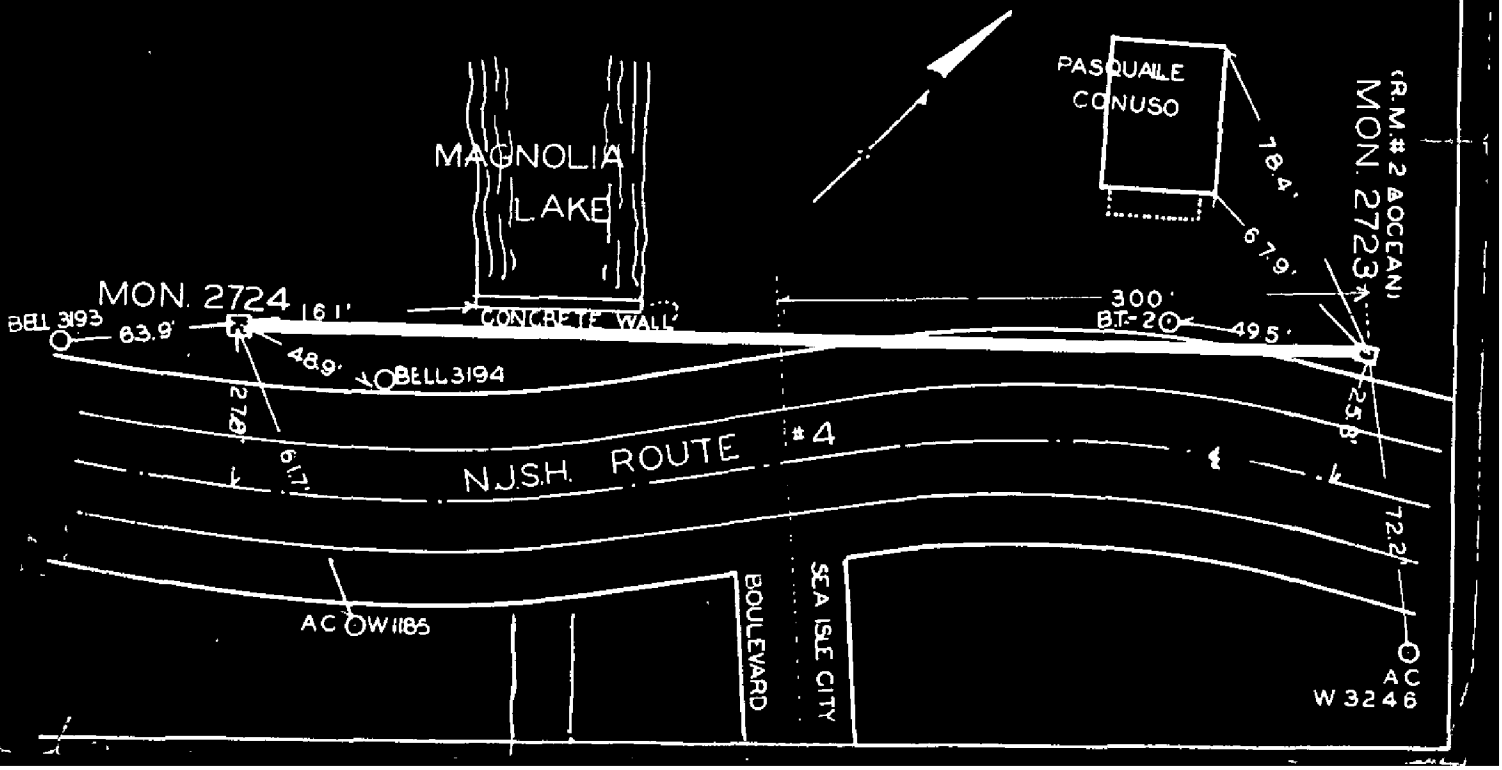
N.G. Grid Bearing: Mon. #2723 to Mon. #2724 is

Mon. #2723: feet

Elevation:
x-coord:(east)
y-coord:(north)

Mon. #2724: feet

Elevation:
x-coord:(east)
y-coord:(north)



60-MM

March 24, 1937.

Mr. Arthur Noack, State Supervisor,
New Jersey Geodetic Control Survey,
17-19 William Street,
Newark, N. J.

Dear Sir:

Under date of February 16, 1937, I sent you a letter, asking you to investigate the discrepancies in the descriptions pertaining to New Jersey Control Survey Stations Nos. 2723 and 2724. Under date of February 18 you replied to the effect that your party chief at Sea Isle City had been asked to investigate this matter. Has any reply been received from this man, and if so, will you please inform me as to the results of the investigation.

Your prompt attention to this matter will be appreciated.

Very truly yours,

(Signed) PAUL C. WHITNEY
Acting Director.

Report for Supplemental T 5644

5/11/38

Details shown in red on T 5644 Supplemental have been applied by E. W. Frederick and checked by O. G. Jones, 5/11/38, from the following sources:

(a) Planetable Survey, Field No. GG, Office No. C.S. 126 M; and Planetable Survey Field No. FF, Office No. C.S. 127 M, all details on C.S. 126 M and C.S. 127 M within the area of T 5644 have been applied to T 5644 Supplemental except the following:

1. Temporary Planetable stations
2. Magnetic meridian
3. Tide gauge locations
4. Certain Form 524 descriptions.

These descriptions are not necessary for the recovery of the stations and have not been put into the regular files. The stations are shown on T 5644 Supplemental without a(d).

The sounding outside the HW line around the point on south side of Carson Inlet merely indicates the character of the beach and not the low water line. Low water line was not surveyed on C.S. 127 M.

The range marks or Beacons in Main channel and Ludlam Thorofare are noted in the report C.S. 126 M as temporary but are described as useful in making safe passage thru the channel. They have been added to T 5644 Supplemental.

(over)

T5544 Supplemental has been compared with H5231 and H6262 1937 and no discrepancies have been found

[redacted]

5644

AIR PHOTO

5644

Form 504
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

FIELD 11

Topographic / ~~*Hydrographic*~~ } *Sheet No.* REG. 5644

State NEW JERSEY

LOCALITY

Atlantic Coast

~~OUTSIDE COAST — CAPE MAY COUNTY~~

STRATHMERE TO SEA ISLE CITY

*193*6

CHIEF OF PARTY

E. H. Kirsch

U. S. GOVERNMENT PRINTING OFFICE: 1934

12-17-36

T5644 (corrected to May 11, 1938) Applied to Chart 1217 - May 19, 1938 - J.F.W.
T 5644 (" " " ") " " new compilation Cht. 827 (June 12/39) BR.