

9094

Diag. Cht. No. 1212-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey SHORELINE* PHOTOGRAMMETRIC

Field No. Ph-31(48)F Office No. T-9094

LOCALITY

State CONNECTICUT

General locality CONNECTICUT RIVER

Locality FROM LONG ISLAND SOUND TO GOOSE
ISLAND

194 8

CHIEF OF PARTY

R.J.Sipe-Chief of Party

C.W.Clark-Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE

JUL 13 1954

9094

CHT1212 - FULLY APPLIED DLP 6-18-73

DATA RECORD

T-9094

Project No. (II): Ph-31 (48)F Quadrangle Name (IV):

Field Office (II): Washington, North Carolina

Chief of Party: Riley J. Sipe

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Charles W. Clark

Instructions dated (II) (III): 9 April 1948 (Field)
9 February 1949 (Office)Copy filed in Division of
Photogrammetry (IV)
Office Files

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV): 9-5-50

Date reported to Nautical Chart Branch (IV): 8 Sept 50

Applied to Chart No.

Date:

Date registered (IV): 18 Nov. 1952

Publication Scale (IV):

Publication date (IV):
(Date of issue June 1952)

Geographic Datum (III): N.A. 1927

Vertical Datum (III): Mean ~~Sea Level~~ *High Water*

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): CHADWICK, 1934

Lat.: 41° 18' 59.351" 1831.0 m Long.: 72° 20' 33.112" 770.2 m Adjusted X
(20.0 m) (625.4 m) Unadjusted

Plane Coordinates (IV):

State: Conn.

Zone: —

Y = 176,303.2

X = 711,936.88

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

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

DATA RECORD

Page 3

Field Inspection by (II): **E.T. Jenkins and R.A. Horn**

Date: **4/26/48 to 5/21/48**

Planetable contouring by (II): _____

Date:

Completion Surveys by (II): _____

Date:

Mean High Water Location (III) (State date and method of location): **4/26/48 to 5/21/48. Located on field inspection photographs.**

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): **John C. Lajoye**

Date: **8/12/49**

Control checked by (III): **Frank H. Elrod**

Date: **8/17/49**

Radial Plot or Stereoscopic **James L. Harris and J.E. Deal**
Control extension by (III):

Date: **8/26/49**

Stereoscopic Instrument compilation (III):
Planimetry _____
Contours _____

Date:

Date:

Manuscript delineated by (III): **Marie B. Elrod**

Date: **12/20/49**

Photogrammetric Office Review by (III): **Ree H. Barron**

Date: **3/8/50**

Elevations on Manuscript _____
checked by (II) (III):

Date:

PHOTOGRAPHS (III)					
Number	Date	Time	Scale	Stage of Tide	
J 716 to 720 Incl.	5/2/48	11:01	1:10,000 ratio	0.5 ft. above M.L.W.	
J 723 to 727 Incl.	5/2/48	11:10	1:10,000 "	0.5 ft. " "	
J 755 to 758 Incl.	5/2/48	11:28	1:10,000 "	0.4 ft. " "	

(See Field Inspection Report for T-9093 and T-9094, Project Ph-31(48)F sub-heading 7 "Mean High-Water".)

* The 1948 edition Tide Tables Atlantic Ocean does not indicate that the predicted tides in the area of T-9094 are applicable only to the lowest river stages.

Tide (III)

Reference Station: New London, Conn.
 Subordinate Station: Saybrook, Jetty, Conn.
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
1.0	2.6	3.1
1.3	3.5	4.2

Washington Office Review by (IV): *Lena T. Stevens*

Date: *12 April 1951*

Final Drafting by (IV): *A. Berry, J. Ba#ley*

Date: *Nov. 5, 1951*

Drafting verified for reproduction by (IV): *C. Kypiec*
W.O. Halluin

Date: *Nov 6, 1951*
June 24, 1952

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 12.0

Shoreline (More than 200 meters to opposite shore) (III): 25.6

Shoreline (Less than 200 meters to opposite shore) (III): 12.1

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered: 33

Identified: 13

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 2

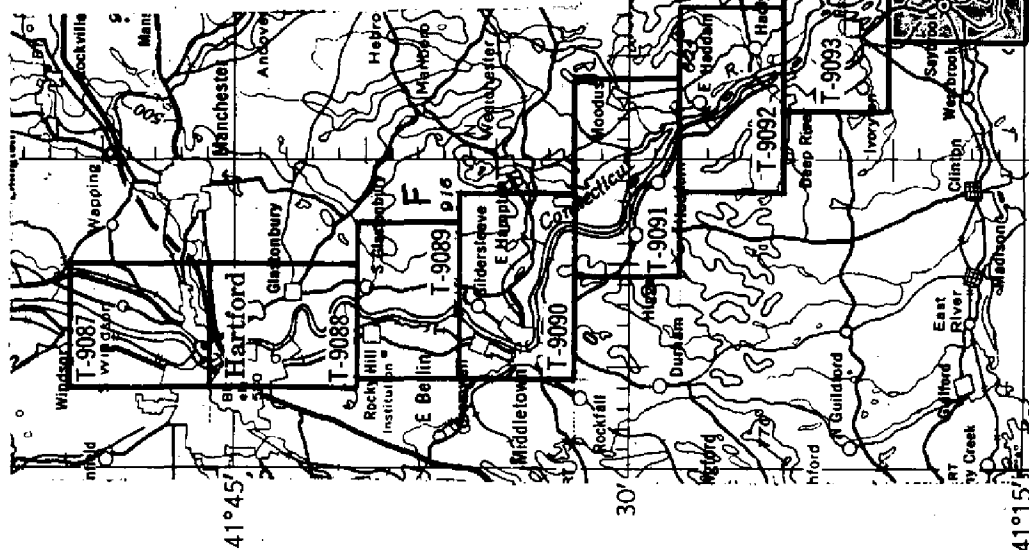
Number of Temporary Photo Hydro Stations established (III):

Remarks:

F.I. Photos:

46-D-2304 to 2309
23 22 to 2336

June 7, 1946



T-9083 to T-9085 and T-9087 to T-9094, scale 1:10,000



SUMMARY TO ACCOMPANY T-9094

Shoreline survey T-9094, scale 1:10,000 (Latitude 41°15' to 20', Longitude 72°18' to 24') is one of 20 maps in shoreline and planimetric project Ph-31(48). This project has six parts (A to F) and extends from Nantucket Island, Massachusetts, to and including the Connecticut River, Connecticut.

T-9094 is the most southern of the F group maps which consists of 8 shoreline surveys of the Connecticut River (T-9087 to T-9094, inclusive) extending from Long Island Sound to about five miles north of Hartford.

FIELD INSPECTION REPORT
Map Manuscript T-9094
Project Ph-31(48)F

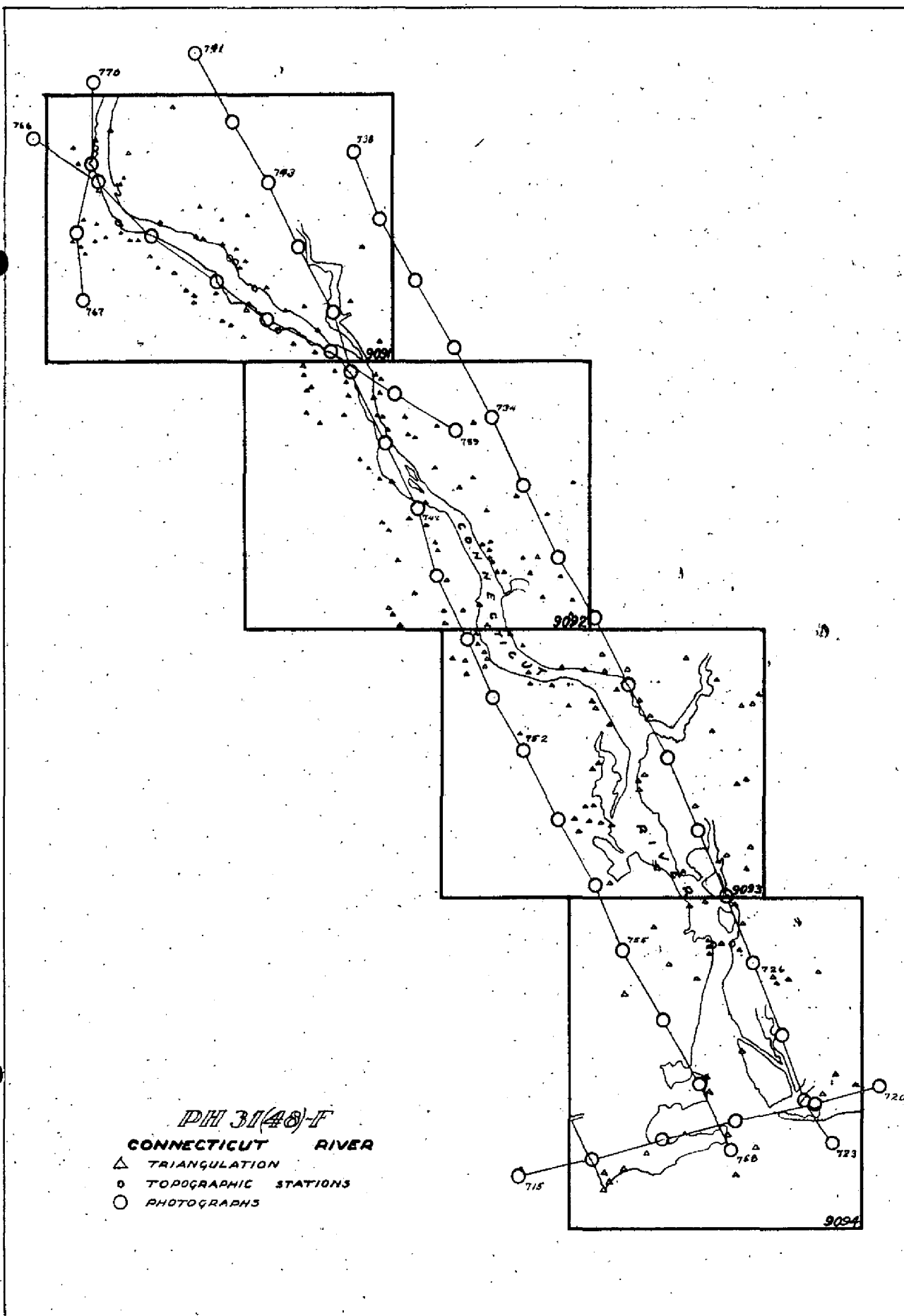
The field inspection report for this map manuscript is part of a combined field inspection report for map manuscripts No's. T-9093 and T-9094 (1948) and is included in the descriptive report for T-9093.

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-9094

Project Ph-31(48)F

The radial plot for this map manuscript is described in a combined photogrammetric plot report for map manuscripts No's. T-9091 to T-9094 incl., (1948) and is included in the descriptive report for T-9091 (1948).



Page 1 of 3
SCALE FACTOR None

SCALE OF MAP 1:10,000

PROJECT NO. Ph-31 (48) F

MAP T9094

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR λ -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
					FORWARD	(BACK)		FORWARD	(BACK)	
GALVES ISLAND	G-3536	N.A.	41° 19'	51.236"				1580.6	(270.4)	
LIGHT, 1856	Pg. 164	1927	72° 21'	01.608"				37.4	(1357.8)	
ELY'S WINDMILL		"	41° 17'	06.279"				193.7	(1657.3)	
1934	Pg. 61		72° 18'	21.686"				504.6	(891.7)	
GRISWOLD POINT		"	41° 16'	53.794"				1659.6	(191.4)	
WINDMILL, 1934	Pg. 61		72° 18'	46.424"				1080.4	(315.9)	
GUARDHOUSE POINT		"	41° 16'	06.498"				200.5	(1650.5)	
TANK, 1934	Pg. 60		72° 22'	23.488"				546.7	(849.9)	
HEARN, 1932	G-1246	"	41° 15'	47.137"				1454.2	(396.8)	
OLD LYME CONGRE-	Pg. 4	"	72° 23'	05.121"				119.2	(1277.5)	
GATIONAL CHURCH		"	41° 18'	45.936"				1417.1	(433.9)	
SPIRE, 1934	Pg. 60		72° 19'	56.206"				1307.5	(88.2)	
PIONTKOWSKI'S		"	41° 18'	25.347"				782.0	(1069.0)	
TOWER, 1934	Pg. 60		72° 22'	50.943"				1185.1	(210.7)	
POWERHOUSE STACK	G-3536	"	41° 18'	46.222"				1425.9	(425.1)	
1934	Pg. 163		72° 21'	13.785"				320.6	(1075.1)	
SAYBROOK, 1934	Pg. 56	"	41° 17'	08.201"				253.0	(1598.0)	
SAYBROOK BREAK-	G-1246	"	72° 21'	02.022"				47.1	(1349.1)	
WATER LIGHTHOUSE	Pg. 5	"	41° 15'	47.185"				1455.7	(395.3)	
SAYBROOK BEACON	Pg. 56	"	72° 20'	35.611"				829.0	(567.7)	
1934		"	41° 16'	07.017"				216.5	(1634.5)	
No. 226(USE), 1934	Pg. 142	"	72° 20'	18.838"				438.5	(958.1)	
		"	41° 19'	56.076"				1729.9	(121.1)	
		"	72° 20'	41.883"				973.9	(421.3)	

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M-2388-12

1 FT. = 3048006 METER

COMPUTED BY: J.C. LaJoye

DATE 7/22/49

CHECKED BY: G. Richter

DATE 8/4/49

Probably said description: on very tip of a
rock, breaker wall, and in the
center line of the wall.

E.T. Jenkins 27 April, 1948

MAP T-9094

PROJECT NO.

Ph-21(48)F

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
No. 227(USE), 1934	Pg. 141	N.A.	41° 19' 56.571"				1745.2	(105.8)	
		1927	72° 21' 36.339"				845.0	(550.2)	
No. 232(USE) 1934	Pg. 56	"	41° 17' 44.856"				1383.8	(467.2)	
		"	72° 20' 31.982"				744.1	(651.9)	
BRIDGE CONTROL HOUSE, 1934	G-3536 Pg. 163	"	41° 19' 12.715"				392.3	(1458.7)	
		"	72° 20' 48.632"				1131.1	(264.4)	
CHADWICK, 1934	Pg. 141	"	41° 18' 59.351"				1831.0	(20.0)	
		"	72° 20' 33.112"				770.2	(625.4)	
CHAMPLAIN, 1934	G-3330 Pg. 30	"	41° 18' 48.753"				1504.0	(347.0)	
		"	72° 18' 57.853"				1345.8	(49.9)	
CORNFIELD, 1934	Pg. 53	"	41° 15' 38.457"				1186.4	(664.6)	
		"	72° 23' 19.600"				456.3	(940.4)	
CORNFIELD POINT TANK, 1934	Pg. 55	"	41° 15' 46.924"				1447.6	(403.4)	
		"	72° 23' 20.448"				476.0	(920.7)	
DANIEL'S CHIMNEY 1934	G-3536 Pg. 164	"	41° 19' 21.046"				649.3	(1201.7)	
		"	72° 21' 07.638"				177.6	(1217.9)	
FERRY HILL, 1934	G-3330 Pg. 30	"	41° 18' 57.754"				1781.7	(69.3)	
		"	72° 21' 57.365"				1334.3	(61.3)	
FERRY POINT, 1934	Pg. 141	"	41° 19' 19.559"				603.4	(1247.6)	
		"	72° 21' 05.735"				133.4	(1262.1)	
GARDNER'S CHIMNEY, 1934	G-3536 Pg. 164	"	41° 19' 34.867"				1075.6	(775.4)	
		"	72° 20' 24.736"				575.3	(820.1)	
KRUPP, 1934	G-3330 Pg. 30	"	41° 16' 57.043"				1759.8	(91.2)	
		"	72° 18' 01.383"				32.2	(1364.1)	

Page 11

1 FT. = 3048006 METER

COMPUTED BY: J.C. LaJoye

DATE 7/22/49

CHECKED BY: G. Richter

DATE 8/4/49

[illegible]

COMPILATION REPORT
Map Manuscript T-9094
Project Ph-31(48)F

Sub-headings 31, 32, 33, 34, 36, 37, 39 and 40 of the compilation report for T-9091 are applicable to the compilation report for T-9093. The words "Nautical Chart No. 215" should be substituted wherever "Nautical Chart No. 266" appears in the compilation report for T-9091.

35: SHORELINE AND ALONGSHORE DETAILS:

The facts contained in sub-heading 35 of the compilation report for T-9093 are applicable to map manuscript T-9094.

38: CONTROL FOR FUTURE SURVEYS:

Forms 524 are submitted by this office for two objects, which were recommended by the field party as landmarks. These are listed under sub-heading 49 of this report. Forms 524 on file in Div. of Photogrammetry general files.

46: COMPARISON WITH EXISTING MAPS:

A visual comparison was made with U.S.G.S. quadrangles as follows:

LYME, CONN., 7 1/2 min., Scale 1:31,680 preliminary edition 1941
ESSEX, CONN., 7 1/2 min., Scale 1:31,680 edition of 1944

47: COMPARISON WITH NAUTICAL CHARTS:

Comparison was made, by use of the vertical projector, with Nautical Chart No. 215, Scale 1:30,000 last printed 12/27/48, last hand correction date not shown.

There are numerous minor differences between the map manuscript and chart in the shoreline and other planimetric features.

Approved:

Charles W. Clark
Charles W. Clark
Officer-in-Charge

Respectfully submitted:

J. Edward Deal Jr.
J. Edward Deal, Jr.
Cartographer

Land marks:

E. Tower (cable) fm 524 Chart. Letter No. 35(1951)
W. Tower " " "
Guardhouse Point Tank Δ
Ye Castle Inn Tower Δ (= CUP on Chart 215)
Powerhouse Stack Δ

49: NOTES TO THE HYDROGRAPHER: (Ldmhs) Ch. L. No. 35(1951)

Recoverable Topographic Stations:

East Tower, Overhead Cable, 1950

West Tower, Overhead Cable, 1950

There were no photo-hydro stations established during the compilation of this map manuscript.

PHOTOGRAMMETRIC OFFICE REVIEW

T-9094

1. Projection and grids ☒ 2. Title ☒ 3. Manuscript numbers ☒ 4. Manuscript size ☒

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ☒ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ☒ 7. Photo hydro stations ☒ 8. Bench marks ☒
9. Plotting of sextant fixes ☒ 10. Photogrammetric plot report ☒ 11. Detail points ☒

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low-water line ☒ 14. Rocks, shoals, etc. ☒ 15. Bridges ☒ 16. Aids to navigation ☒ 17. Landmarks ☒ 18. Other alongshore physical features ☒ 19. Other along-shore cultural features ☒

PHYSICAL FEATURES

20. Water features ☒ 21. Natural ground cover ☒ 22. Planetable contours ☒ 23. Stereoscopic instrument contours ☒ 24. Contours in general ☒ 25. Spot elevations ☒ 26. Other physical features ☒

CULTURAL FEATURES

27. Roads ☒ 28. Buildings ☒ 29. Railroads ☒ 30. Other cultural features ☒

BOUNDARIES

31. Boundary lines ☒ 32. Public land lines ☒

MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay ☒ 37. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒40. Ree H. Barron
ReviewerJ. Edward Deal Jr.
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.

Compiler_____
Supervisor

43. Remarks:

48: GEOGRAPHIC NAME LIST:CHART #215

- Back River (E. side of Conn. R.) ✓
- Black Hall River ✓
- Cornfield Point ✓
- Connecticut River ✓
- Duck River ✓
- Ferry Point ✓
- Griswold Point ✓
- Guardhouse Point ✓
- Lieutenant River ✓
- Long Island Sound ✓
- Lynde Point ✓
- North Cove ✓
- Oyster River ✓
- Poverty Point ✓
- Poverty Island ✓
- Ragged Neck Creek ✓
- Saybrook Point ✓
- South Cove ✓
- Quarry Hill ✓

U.S.G.S. Quads Lyme, Conn. and Essex, Conn.

- Ayres Road
- Back River (N. of Cornfield Pt.) ✓
- Beamon Creek
- Black Hall
- Bokum Road
- Boston Post Road
- Calves Island ✓
- Chalkers Mill Pond
- Duck River Cemetery ✓
- Dunks Island ✓
- Ferry Road
- Fenwick
- Goose Island ✓
- Great Island ✓
- Great Hammock Beach ✓
- Hammock Road
- Indiantown Harbor ✓
- Ingham Ponds ✓
- Jacobs Peak ✓
- Johnnycake Hill ✓
- Knollwood
- Lyme Station
- Elm. St.
- Middlesex Turnpike
- New York, New Haven & Hartford R.R.
- Obed Heights ✓
- Obed Reservoir ✓
- Old Lyme
- Old Saybrook
- Peckham Island ✓
- Plum Bank ✓
- Riverside Cemetery ✓
- Saybrook Manor ✓
- Saybrook Point (village) ✓
- Saybrook Station ✓
- Shore Road ✓
- Smiths Neck ✓
- State Highway #80
- State Highway #9
- State Highway #156
- State Highway #154
- U.S. Highway #1
- U.S. Highway #1-A
- Willard Bay
- State Hwy. #154-A
- Upper Cemetery
- State Hwy. 156A
- Mill Lane
- Fishing Brook
- Cypress Cem. ✓
- Old Post Road
- Sunset Avenue
- Sunrise Avenue
- Plum Bank Cr.
- Flat Rock Road
- Saybrook Gram. S.H.S.

Note: Final name sheet was not furnished. Geographic names were obtained from source shown above.

- Mill Meadows
- Whipoorwill Road
- Mill Rock Road
- Saybrook-Lyme Bridge

Names approved

3-27-51

a.g.w.

REVIEW REPORT T-9094

Shoreline Manuscript

27 March, 1951

62. Comparison with Registered Topographic Surveys:

T-80	1:10,000	1838
T-81	"	1838
T-297	"	1850
T-1568	"	1883-85 (with contours)
T-2025	"	1890-92 " "
T-5081	"	1933
T-6759b	"	1940

Except for contours and off-shore details, T-9094 supersedes the older surveys in common areas.

63. Comparison with Maps of Other Agencies:

USE	Essex	1:25,000	1947
USE	Lyme	"	"

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

215	1:20,000	ed. May 1947	rev. Dec. 1948
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Numerous obstructions on either side of the river channel and a sunken wreck at Saybrook Point do not appear on the map manuscript. No offshore inspection was required by the field inspection instructions.

66. Accuracy

This map complies with the project instructions and the National Standards of Map Accuracy.

67. Bridges:

Seven bridges appear on T-9094. Five are listed in the USE Bridge List for 1941 and one in the 1948 Supplemental List.

Lieutenant River:	Bridge List	Map Manuscript
Old Lyme RR (F)	H=39 ft. V.=11.4 ft.	H=39ft. V=12 ft.
" " Hwy(F)	H=46 ft. V.= 5.3 ft.	H=not given V=skiff only
" " Hwy.(U.S.No.1)(F)	H=47 ft. V.=8.3 ft.	H=46 ft.V=7 ft.

<u>Connecticut River:</u>	<u>Bridge List</u>	<u>Map Manuscript</u>
R.R. (B)	H=139ft. V=19.5 ft.	H=139 ft. V=19 ft.
Hwy (U.S.No.1) (B)	H=200ft. V=29.6 ft.	H=200 ft. V=
" " New (F)	H=218ft. V=81.6 ft.	H=200 ft. V=81.6 ft.
7 spans)	(central span)	(planned)

No review adjustment of the field inspection figures can be made for the Lieutenant River Bridges because the day and the time of inspection was not given. Because Lieutenant River is navigable by skiff only at Old Lyme, adjustment of the figures is not essential.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

Approved:

S. V. Gifford 5/20/64
Chief, Review Section
Div. of Photogrammetry

H. R. Edmonston
Chief, Nautical Chart Branch
Division of Charts 6/6

O. S. Reading
Chief, Div. of Photogrammetry
pub

Carl O. Heston
Chief, Div. of Coastal Surveys
rnf