# 9091

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-9091

LOCALITY

State

CONNECTICUT

General locality CONNECTICUT RIVER

Locality FROM SHATLERVILLE TO A POINT ABOUT

2 MILES UPSTREAM FROM HIGGANUM

194 8

CHIEF OF PARTY

R.J.Sipe, Chief of Party.

C.W.Clark, Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE Aug - 14-1953

B-1870-1 (I)

**1000**0

Cht 266-Appel 10/26/65 GRJ Thru BP 68518 (part 5)

#### DATA RECORD

T -9091

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

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): 25-50 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 20 Aug. 19.52

Publication Scale (IV):

Geographic Datum (III): N.A. 1927

Publication date (IV): June 1982) Mean High Water

Vertical Datum (III): Mean Sea Level

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): BROWN, 1934

Lat.: 41° 30° 30.365° 936.8 m Long.: 72° 32° 50.137° 1162.7 m Adjusted X (914.3 m) Unadjusted

Plane Coordinates (IV):

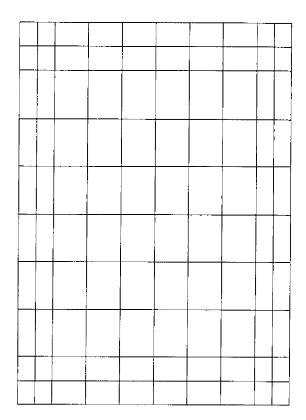
Zone: State: Conn.

Y= 2 46,043.58

x= 655,531.23

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.



Areas contoured by various personnel (Show name within area)

Shoreline Map

#### DATA RECORD

	Field Inspection by (II): R.A. Horn & E.T. Jenkins	Date: 5/22/48 to 6/11/48
	Planetable contouring by (II):	Date:
•	Completion Surveys by (II):	Date:
	Mean High Water Location (III) (State date and method of location): 5/22/48 to on field inspection photographs.	6/11/48. Located
	Projection and Grids ruled by (IV):	Date:
	Projection and Grids checked by (IV):	Date:
	* Control plotted by (III): John C. Lajoye	Date: 8/8/49
	Control checked by (III): Frank H. Elrod	Date: 8/15/49
	Radial Plot or Stereoscopic James L. Harris and J.E. Deal Control extension by (III):	Date: 8/26/49
	Planimetry ———	Date:
	Stereoscopic Instrument compilation (III): Contours	Date:
	Manuscript delineated by (III): Helen L. Laube	Date: 1/23/50
	Photogrammetric Office Review by (III): Ree H. Barron	Date: 3/3/50
•	Elevations on Manuscript checked by (II) (III):	Date:

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
48 J-743 to 745 Incl. 48 J-761 to 769 Incl.	5/2/48 5/2/48	11:20 11:25 11:45	1:10,000 ratio 1:10,000 " 1:10,000 "	0.9 ft. above M.L.W. 0.9 " " 0.9 ft. " "

\* Tidal information applies only during lowest river stages. (See Field Inspection Report for T-9093 and T-9094 Project Ph-31(48)F sub-heading 7, "Mean High Water").

F. I. Pholos:

46-0-2351-56 2373-77 2380-83

Tide (III)

Reference Station:

New London, Conn.

Subordinate Station: Subordinate Station:

Haddam, Conn.

Washington Office Review by (IV): Lena T. Steves

Date: 16 Hay, 1951

Ratio of Mean | Spring

Range

2.6

Ranges

..0

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

michael C. Jones Date:

(IV): Sylvia Dean Motallium Date:

Date:

Date:

Date: 26 Oct. 51

Proof Edit by (IV):

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

Shoreline (More than 200 meters to opposite shore) (III): 19.9

Shoreline (Less than 200 meters to opposite shore) (III): 5.6

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered: Recovered:

Identified: 17

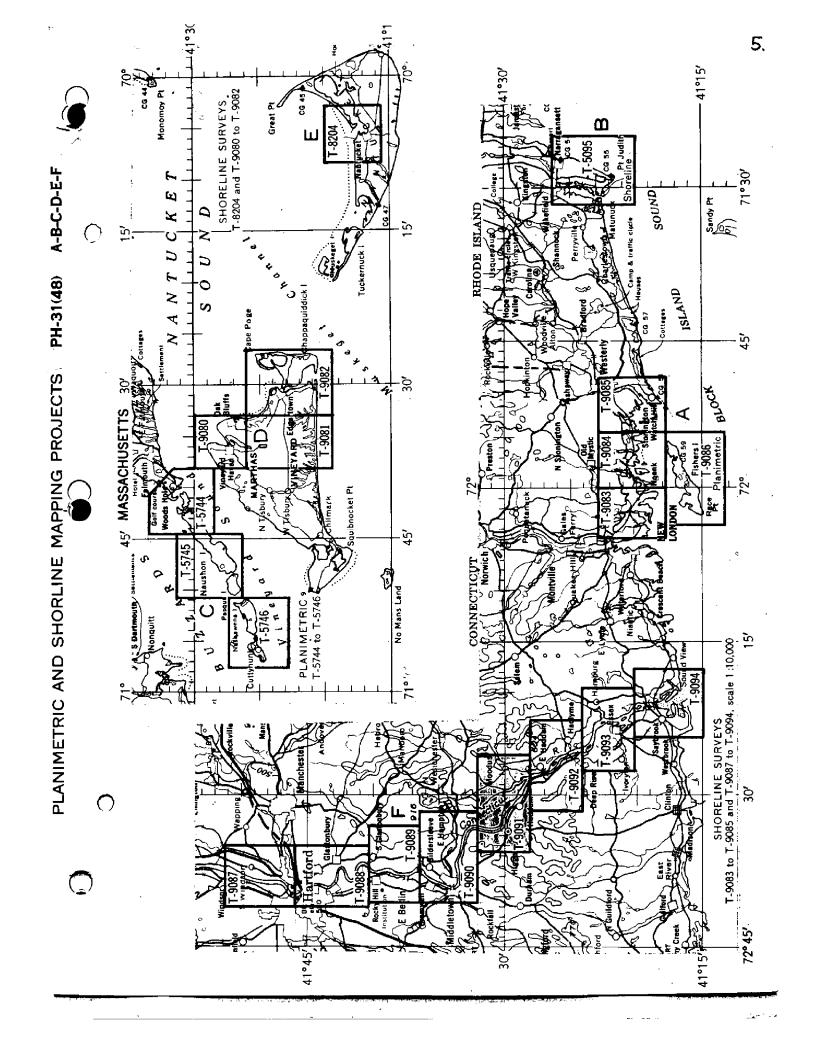
Identified:

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): 6

Number of Temporary Photo Hydro Stations established (III): None

Remarks:



#### FIELD INSPECTION REPORT QUADRANGLES 9091 AND 9092 PROJECT Ph-31 (48)

#### Riley J. Sipe, Chief of Party

All phases of the field work were done in accordance with The Director's Instructions, Project Ph-31 (48), Field, dated 9 April 1948.

The field work on these quadrangles was performed by the following personnel on the dates indicated:

Name & Title	Field Work	<u>Dates</u>
E. T. Jenkins Engineering Aid	Recovery, Shoreline and Inspection	45-22-48 6-11-48
R. A. Horn Photogrammetrist	Recovery, Shoreline and Inspection	5-22-48 6-11-48

#### 1. Description of the Area.

The area surveyed includes the Connecticut River from the north portion of Deep River, Connecticut to and including a portion of Cobalt, Connecticut; and the land area adjacent to the Connecticut River.

The river in this section is well marked by Aids to Navigation and has adequate water depth for the passage of large barges.

The principal settlements in the locality are Chester, Had lyme, Haddam, Higganum, and Cobalt. The predominent occupation of the inhabitants is manufacturing of all descriptions.

#### 2. Completeness of Field Inspection.

See report on Quadrangles 9093 and 9094.

#### 3. Interpretation of the Photographs.

See report on Quadrangles 9093 and 9094.

#### 4. <u>Horizontal Control</u>.

See report on waadrangles 9093 and 9094.

#### 5. <u>Vertical Control</u>

Not applicable to this project.

#### 6. Contours and Drainage

Not applicable.

#### 7. Mean High Water

See report on quadrangles 9093 and 9094.

#### 8. Low Water Line

Due to the spring rains falling in this area, the Mean Low Water Line could not be determined at any point during the course of the survey. As indicated in Paragraph 7, the fresh water discharge at such times maintains the water level to a comparatively high stage.

#### 9. Wharves and Shoreline Structures

See report on Quadrangles 9093 and 9094.

#### 10. Details Off-shore from Mean High Water Line

See report on quadrangles 9093 and 9094.

#### 11. Landmarks and Aids to Navigation

All Landmarks and rixed Aids to Havigation in the quadrangles were investigated. Form 567 and Chart Sections are submitted with the information determined.

It should be noted that, with three exceptions, the positions of all ranges on the Connecticut River were changed about 1937. This was necessary, at that time, due to the dredging of new channels. The three ranges that were not changed in 1937 are: Whalebone Creek, Rock Landing and Clay Banks. The information on the ranges was obtained from the U. S. Coast Guard Station in Portland, Connecticut. This same station was informed of the discrepancies existing in the Light List - Atlantic and Gulf Coasts, 1947 edition. Several of the ranges are not listed as having been rebuilt during this period.

#### 12. Hydrographic Control

Not applicable to this project.

#### 13. Landing rields and Aeronautical Aid s

There were no landing fields or aeronautical aids noted in either of these quadrangles.

#### 14. Roads

Same as Report on Quadrangles 9093 and 9094.

#### 15. Bridges

All bridge information for the area covered by this report as listed in the U. S. Engineers' 'List of Bridges Over Navigable Waters in the U. S.', dated 1 July 1941, was verified in the field, all clearances were carefully measured with a steel tape, and the published descriptions and clearances were found to be correct.

#### 16. Buildings and Structures

Adequately indicated on the photographs. Cross-references are made to new photography for exact locations and shapes.

#### 17. Boundary Monuments and Lines

Not applicable to this project.

#### 18. Geographic Names

In accordance with the Project Instructions, a systematic investigation of geographic names was not made. However, important points were identified and a few additional names supplied. One discrepancy was noted on Chart 266 at approximate latitude 41 Degrees - 28 Minutes and Longitude 72 Degrees - 30 Minutes. A tributary is identified on the Chart as Beaver Meadow Brook. Actually, this stream is known locally as MILL CREEK. Beaver Meadow Brook is the southern prong of MILL CREEK.

Submitted: June 1948
Date 24 June 1948

E. T. Jenkins Engineering Aid

Robert A. Horn Photogrammetrist

See attached

note

#2

# NOTES TO COMPILER QUADRANGLES 9091 AND 9092 PROJECT Ph-31 (48) SUB-PROJECT F

March and P

Riley J. Sipe, Chief of Party

#### 1. Chart Discrepancies

On Chart 266, just north of East Haddam, an Overhead Cable crossing is indicated with a clearance of 146 feet shown. Determinations by this party fix the clearance to be 136.7 feet. Est Letter 10. 473(1948)

The horizontal control layout, on a nautical chart base, supplied this party names a triangulation station near Clark Landing, "CLARKHURST GOLF LINKS, CLUBHOUSE, GABLE". The list of descriptions name it "CLUBHOUSE CUPOLA". On this same layout, HIGGANUM METHODIST CHURCH - 1862 was not shown as triangulation. No geographic position could be found on this station. See fm. M-2388-12, P.

#### 2. Horizontal Control

In addition to the control identified in accordance with instructions, several points of triangulation, such as chimneys and cupolas, where they were apparent on the photographs, were labeled and a ray drawn to same. This required very little additional time and effort on the part of the field man, and it is felt that should some difficulties arise in laying the plot, these stations could be readily identified and pricked in the office.

The following Triangulation Stations were identified on the photographs for use in the control of the radial

plot:

#### Quadrangle 9092

CHESTER BAPTIST CHURCH TOWER - 1934 - (Pricked Direct)
CHESTER ROCK LIGHT - (Pricked Direct)
RIAN JAMES GABLE - 1934 - (Pricked Direct)
GRAVEL - 1934 - (Sub. Station)
WHALEBONE CREEK FRONT RANGE LIGHT - (Pricked Direct)
WHALEBONE CREEK REAR RANGE LIGHT - (Pricked Direct)
MAPLE SHADE BARN VENTILATOR - 1934 - (Pricked Direct)
WILLEY'S GABLE - 1935 - (Pricked Direct)
FRANCIS - 1934 - (Sub. Station)
EDDY ROCK LIGHT - 1934 - (Pricked Direct)

TYLER'S CUPOLA - 1934 - (Pricked Direct)
RAY'S HOUSE CUPOLA - 1934 - (Pricked Direct)
SHAILER'S MONUMENT - 1934 - (Pricked Direct)
EAST HADDAM, TRANSMISSION TOWER, EAST SIDE - (Pricked Direct)
SHAILERVIILE BAPTIST CHURCH FINIAL - 1862 - (Pricked Direct)

#### Quadrangle 9091

JOHNSON'S BARN CUPOLA - 1934 - (Pricked Direct)

U.S.E. - 180 - 1909 - (Pricked Direct)

HADDAM NECK CONGREGATIONAL CHURCH SPIRE - 1934 - (Pricked FAARTOFT'S CUPOLA - 1934 - (Sub. Station)

RED STORE - 1934 - (Pricked Direct) (Sub. Station)

ST. PETER'S CHURCH CUPOLA - 1934 - (Pricked Direct)

LATSHAW - 1934 - (Sub. Station)

DARLEY'S BARN CUPOLA - 1934 - (Pricked Direct)

HIGGANUM CONGREGATIONAL CHURCH BELFRY - 1934 - (Pricked KELLNERS TOWER - 1934 - (Pricked Direct)

CLUBHOUSE CUPOLA - 1934 - (Pricked Direct)

SCOVILL - 1934 - (Sub. Station)

OAKBROCK FARM BARN GABLE - 1934 - (Pricked Direct)

U.S.E. 162 - 1914 - (Sub. Station)

ROCK LANDING FRONT RANGE LIGHT - (Pricked Direct)

SKINNERS GABLE - 1934 - (Pricked Direct)

HIGGANUM METHODIST CHURCH - 1862 - 1934 - (Pricked Direct)

#### The following points are to be located by radial plot:

Quadrangle 9092
Photo Points 1 to 15, inclusive.
Photo Points A to F, inclusive.

Quadrangle 9091

HADDAM ISLAND FRONT AND REAR RANGE LIGHTS - Topographic Station.

Points on M.H.W.L. from U.S.E. 174, 176 and 178.

Photo Points 1 to 6, inclusive.

SEARS SHOAL RANGE LIGHTS - Topographic Station.

WARNERS QUARRY DOCK LIGHT 49 - Topographic Station.

HIGGANUM LIGHT 55 - Topographic Station.

## PHOTOGRAMMETRIC PLOT REPORT Map Manuscripts No's. T-9091 to T-9094 Incl. Project Ph-31 (48)F

#### 21: AREA COVERED:

This radial plot covers the shorelines of the Connecticut River and adjacent interior areas (approximately 3 miles wide) along both shores of the river from Long Island Sound to a point about two miles upstream from Higganum, Connecticut. It comprises Map Manuscripts No's. T-9091 to T-9094 incl.

#### 22: METHOD:

The same methods were used as described in side heading 22 "METHOD" of the Photogrammetric Plot Report for Map Manuscripts No's. T-9083 to T-9086 incl. (1948) Project Ph-31(48)A, which is included in the Descriptive Report for T-9083 (1948).

#### 23: ADEQUACY OF CONTROL:

The field party identified an ample number of horizontal control stations to rigidly fix the orientation of the templets. All identified stations except station ELY'S WINDMILL, 1934 were held to during the 7-9094 running of the radial plot. It is believed that the field party should have marked the identification of station ELY'S WINDMILL 1934 as "doubtful" because the points selected were not easily identified on the 1948 photographs and also because the field methods used did not give a substation of sufficient accuracy. Refer to "Notes to the Compiler" in the Field Inspection Reports for T-9091 and T-9092 (combined) and T-9093 and T-9094 (combined) and sub-heading 4: "Horizontal Control" of the Field Inspection Report for T-9093 and T-9094 (combined).

#### 24: SUPPLEMENTAL DATA:

There were no graphic control surveys furnished for the area of this radial plot.

#### 25: PHOTOGRAPHY:

The photography was adequate for the area of this radial plot.

#### 26: REMARKS:

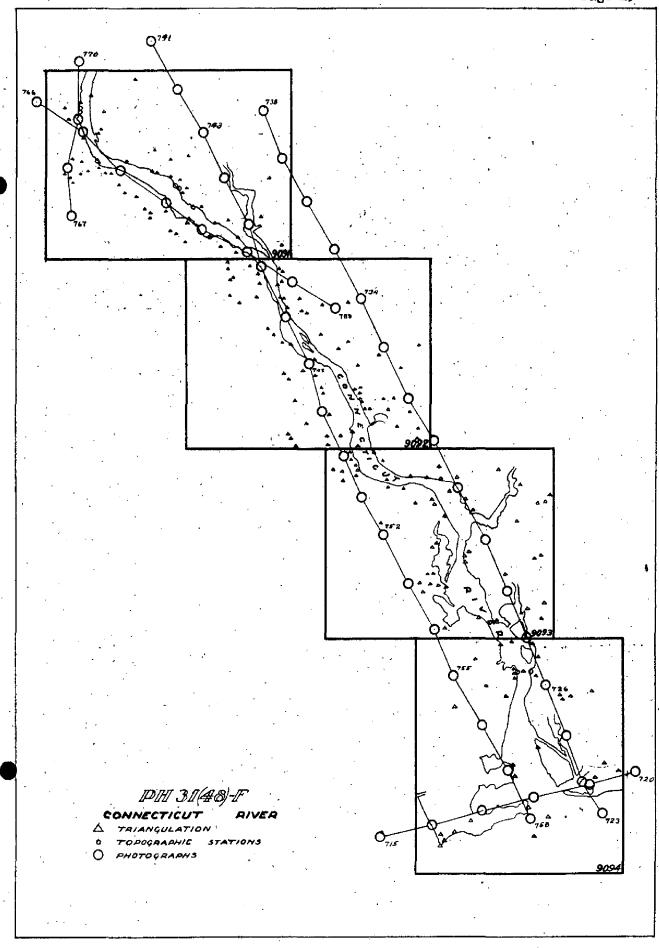
Attached are Forms M-2388-12 for map manuscript No. T-9091 and a letter size sketch, showing map limits, photograph centers and the horizontal control stations used to control the radial plot.

Approved:

Charles W. Clark Officer-in-Charge Respectfully submitted:

J. Edward Deal Jr.

Cartographer



MAP T. 9091. PROJECT NO. Ph-31 (48)F.	0	PROJEC	T NO. P	1-31 (4	8)F	SCALE OF MAP. 1:10,000.	MAP 1:10	000	SCAL	SCALE FACTOR	of 5 OR None
STATION INF	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR "-COORDINATE LONGITUDE OR x-COORDINATE	OR y-CO	COORDINATE - COORDINATE	DISTANCE FROM GRID IN FEET.  OR PROJECTION LINE IN METERS FORWARD (BACK)	GRID IN FEET, INE IN METERS (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	- DATUM NCE ROJECTION LINE TERS (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
FAARTOFTS CUPOLA G-1934	G-3536 Pg. 180	N.A. 1927	41° 28	281 11 291 37	37,188"				344.3	(1506.7)	
TORE, 1937.	Pg. 17.9	=	72° 30	281 52	52,036" 2				1605.3	(245.7)	
TATSHAW. 1937. Pg	Pg. 17.9	=		31 35	17.013" /4				524.9	(1326.1)	
	G-3536	=			56.511" 48				1743.4	(107.6)	
BARN GABLE, 1934 Pg	Pg. 187	-			200				1235.0	(1276.3)	
SCOVILL, 1937. Pe	G-3556 Pg. 151		72° 3	331 32	32.584"				755.5	(635.7)	
POWANT CATHOLIC G-3536	3536	=			53.492" 7				1650.2	(200.8)	
CHURCH, 1934 Pa	Pag. 185	-	720 3.		03,137"				72.8	(1318.9)	
M NETHODIST	W.0. by	=		291 54	54.15 " "	15t. 1	862. (unay)u	usted pos.)	1670.5	(180.5)	
CHURCH, 1862; 1934 97	9/6/79 s	*	720 3	331 49	" of. 67	G. 3536).	3.26. Dear 279.pt	Landma	1152,8	(238.9)	
DARLEYS BARN G-	G-3536	=		291 52	52,204" /4		No. N		1610.5	(240.5)	
	Pg. 185			321 35	35.062"				813.3	(578.4)	
GRE-	G-3536	=		291 50	50.648" ~				1562.5	(288.5)	
1934	Pg. 185			331 20	20.404"				473.3	( 918,4)	
KELLNERS TOWER G-	G-3536	=		291 50	50.036" 11		*		1543.6	(307.4)	
1934 Pp	Pg. 186	e		331 46	46.052"				1068,2	(323.5)	
-5	9-3536	=		31 27	27.418" 12				845.9	(1005.2)	L
No. 162(USE),1934 Pg. 151	. 151			331 12	12,835"				297.6	(1093.5)	age
BOCK LANDING FRONTG	3436	=		291 49	49.657" 22				1531.9	(319,1)	
NRANGE LIGHT, 1915 Pg. 184	3. 184		720 3	31 25	25.136"				583.0	(808,7)	
COMPUTED BY. G. Richter	ter	PA DA	DATE 7/	67/81/1		CHECK	снескер ву. Ј.С. Тајоуе	Lajoye	Q	DATE 7/18/49	/49 M-2388-12

2 of 5 None	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)															•					7	P	age	17	,	м-2388-12
SCALE FACTOR None.	27 - DATUM STANCE PROJECTION LINE METERS (BACK)	(0,11,0)	-	10				)	7 (1320.0)	\$ (1528.2)		0	8 (50.4)	,	_			)				_				DAT
	DATUM FROM GRID ON FORWARD	1870.0	1021,7	791.7	1183,7	219,6	613.3	1395.7	71.7	322.8	871.5	200.3	1340.8	1273.5	624.3	780.6	0.496	781.8	673.8	1727.3	964.5	1604.6	87.8	7 39 5	60.7	
SCALE OF MAP_1:10,000	DISTANCE FROM GRID IN FEET.  OR PROJECTION LINE IN METERS FORWARD (BACK)	Landmark		See Review Report	Landmark																					Снескер ву. Ј.С. Гајоув
PROJECT NO. Ph-31 (48)F	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	410 291 59,642" 23	720 301 44.052"	410 301 25.661" 44	720 321 51.040"	410 291 07,119" 44	72° 301 26,435"	410 291 45.24 11 15	72° 281 03.09 "	410 281 10,462" 3	720 271 37.557"	410 311 06.494" 57	72° 331 57.826"	41° 30° 41.278" "	72° 331 26,920"	41° 281 25,302" 4	720 291 41,546"	410 281 25,341" 5	720 301 29,040"	41° 291 55,990" 24	720 321 41,586"	410 311 52.01 11 58	720 321 03,66 "	410 311 04,523" 19.	720 331 02,617"	E 7/18/49
	DATUM	N.A.	1927	=		=		=		=		=		=		=		=		=		=		=		DATE
O	SOURCE OF INFORMATION (INDEX)	CON- G-3536	Pg. 184	G-3536	Pg. 186		Pg. 149	G-3536	Pg. 181	G-3536	Pg. 179	G-3536	Pg. 151		Pg. 150		Pg. 149	00	Pg. 149	+	Pg. 150	G-3536	Pg. 187	G-3536	Pg. 151	G. Richter
MAP T. 9091	STATION	CRECATIONAL CHIECI	SPIRE 1934	LINKS CLUBHOUSE	《战配法》。1934	77	No.180 (USE),1934	JOHNSONS BARN	CUPOLA, 1934	SKINNERS	GABLE, 1934	1	V MOLLER, 1934	1	SEARS, 1934	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	No.185(USE),1934		DICKINSON, 1934		DARLEY, 1935	HALLBERGS	GABLE, 1935	- 1	SPLIT ROCK 1934	COMPUTED BY:

Photogrammetry

Photogrammetry

MAP I. 9091		PROJE	PROJECT NO. FA-34.148).F	SCALE OF MAP ILL	000°0⊺:T	SCALE FACTOR None	>R None
STATION	SOURCE OF	DATUM	LATITUDE OR W. COORDINATE	DISTANCE FROM GRID IN FEET.	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE	FACTOR DISTANCE FROM GRID OR PROJECTION LINE
	(INDEX)	·		FORWARD (BACK)			IN METERS FORWARD (BACK)
PARKERS GABLE	G-3536	N.A.	41° 30' 41,24 " "			1272,3 (578,8)	
1934	Pg. 187	1927	720 331 08,2211			190,6 (1200,8)	
			41° 301 38,994" 12			1203,0 (648,0)	
PARK, 1934	Pg.150		720 331 09,373"			ت	
4,		=	41° 30° 30.365" (V			936.8 (914.3)	
BROWN 1934	Pg. 150		321			1162.7 (228.7)	
CLARKHURST	G-3536	E	301 25.			.)	
FLAGPOLE, 1934	Pg. 186		72 321 52,588"			1219.6 (171.9)	
`		=	21 ,610°01 106 °12			309.1 (1542.0)	
V SWAN HILL 2, 1934	Pg. 149		720 331 38,72811			898.2 (493.4)	
/ DOYLES TOWER	G-3536	#	41° 30° 07,90 "5"			243.7 (1607.3)	
1934	Pg. 186		72 331 24,89 "			577.3 (814.3)	
<b>\</b>		=	301			127.8 (1723.2)	
GROUT, 1934	Pg. 150		720 331 01,233"			28.6 (1363.0)	
FRISSEL FABRIC CO. G-3536	, G-3536	Ħ	410 291 59,67 11 27			1840.8 ( 10.2)	
ELEVATED TANK, 1934 Pg. 186	14 Pg.186		720 331 22,32 11			517.7 (873.9)	
"HIGGANUM ICE COM-	G-3536	=	41° 29° 45,901" 15			1416.0 (435.0)	
PANY STACK, 1934	Pg. 185		720 331 41.535"		i	963.4 ( 428.3)	
"BROSMITHS GABLE	G-3536	=	410 291 44.740"24			1380.2 (470.8)	
1934	Pg. 185		331			304.9 (1086.9)	
DARLEYS CHIMMEY	G-3536	<b>£</b> ;'	41° 291 52,490"30			1619,3 (231,7)	
1934	Pg. 185		72° 321 29,866"			692.7 (699.0)	ge
LATSHAWS GABLE	G-3536	=	75 291 08,458" 3/			261,2 (1589.8)	18
1934	Pg. 182		72 31 32,400"			751.6 ( 640.3	
1 FT.=.3048006 METER	**************************************		07/61	£			
COMPOSED BY: CO. LLAN		7	A1E(/#0/44Z	CHECKED BY: V.C. LALIONE	• majoya	DATE	(7 <b>18/</b> 47

Photogrammetry

291 291 301 281 281 301 281 281 281 281 281 281 281 281 281 28	FORWARD (BACK)  FORWARD (BACK)	DATUM CORRECTION GRID OR PROJECTION LINE IN METERS GRACK)  47.9 (1803.1)  176.1 (1215.9)  1542.8 (308.2)  581.6 (810.4)  1399.0 (452.0)  1303.4 (88.6)  1347.1 (503.9)  1183.6 (208.5)  1253.3 (138.9)  844.2 (1006.8)	(1803.1) (1803.1) (1803.1) (1810.4) (1810.4) (183.6) (183.9) (198.5) (198.9) (198.9) (1006.8)
G-3536 N.A. 41° 29¹  Fg. 182 1927 72° 31¹  UB- G-3536 " 41° 28¹  Y1935 Pg. 181 72° 30¹  H,1862 Pg.182 72° 30¹  H,1862 Pg.182 72° 30¹  Fg. 181 72° 30¹  Fg. 181 72° 30¹  Fg. 181 72° 30¹  UE G-3536 " 41° 28¹  Pg. 181 72° 30¹  Pg. 181 72° 30¹  G\$3536 " 41° 28¹  G\$3536 " 41° 28¹  G\$23536 " 41° 28¹  G\$23536 " 41° 28¹  G\$23536 " 41° 28¹  Fg. 180 72° 29¹¹  G\$23536 " 41° 28¹  Fg. 180 72° 29¹¹  G\$23536 " 41° 28¹  Fg. 180 72° 29¹¹	17.72 1 20.00 1 27.73 1 27.73		303.1) 308.2) 308.2) 452.0) 88.6) 88.6) 347.2) 508.5)
UB- G-3536 " 410 28'  Y1935 Pg. 181 72° 30'  REGA- G-3536 " 410 28'  H,1862 Pg.181 72° 30'  RARY G-3536 " 410 28'  LE G-3536 " 410 28'  DE. 181 72° 30'  Pg. 181 72° 30'  O35 Pg.181 72° 30'  Pg. 181 72° 30'  O35 Pg.181 72° 30'  O35 Pg.180 " 41° 28'  O40 28'  G\$3536 " 41° 28'  O55 Pg.180 72° 29''  GE - G-3536 " 41° 28'  Pg.180 72° 29''  GE - G-3536 " 41° 28'  Pg.180 72° 29''	1		215.9) 308.2) 310.4) 452.0) 88.6) 503.9) 208.5) 208.5)
T1935 Pg. 181 72° 30°1 REGA— G-3536 " 41° 28°1 REGA— G-3536 " 41° 28°1 RARY G-3536 " 41° 28°1 LE G-3536 " 41° 28°1 RARY Rg. 181 72° 30°1 RARY Rg. 180 T2° 29°1 Rg. 180 T2° 20°1 Rg. 180 T	=		308.2) 310.4) (52.0) 88.6) 503.9) 347.2) 006.8)
X1935 Pg. 181 72° 30¹  REGA — G-3536 " 41° 28¹  H,1962 Pg.182 72° 30¹  Fg. 181 72° 30¹  LE G-3536 " 41° 28¹  Fg. 181 72° 30¹  Pg. 181 72° 30¹  1934 Fg. 181 72° 30¹  1934 Fg. 181 72° 30¹  G\$3536 " 41° 28¹  G\$3536 " 41° 28¹  G\$23536 " 41° 28¹  G\$23536 " 41° 28¹  Fg. 180 72° 29¹¹  G\$ — G-3536 " 41° 28¹  Fg. 180 72° 29¹¹  Fg. 180 72° 29¹¹	1 0 0 2 2 2 2 3		310.4) (52.0) 88.6) 503.9) 208.5) 347.2)
REGA- G-3536 " 41° 28¹ 14,1862 Pg.132 72° 30¹ 172° 30¹ 181 72° 30¹ 181 72° 30¹ 181 72° 30¹ 181 72° 30¹ 181 72° 30¹ 182 182 72° 30¹ 1934 Pg.181 72° 30¹ 1934 Pg.180 1935 Pg.180 72° 29¹ 180	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		88.6) 88.6) 503.9) 347.2) 06.8)
H,1962 Pg,132	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		88.6) 503.9) 347.2) 138.9)
RARY G-3536 " 41° 281°  LE G-3536 " 41° 281°  LE G-3536 " 41° 281°  BLE G-3536 " 41° 281°  935 Pg. 181 72° 301°  1934 Pg. 183 " 41° 281°  G\$3536 " 41° 281°  G\$3536 " 41° 281°  G\$253536 " 41° 281°  Fg. 180 72° 291°  GE → 3536 " 22°  Fg. 180 72°  GE → 281°	12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		503.9) 208.5) 347.2) 138.9)
LE G-3536 " 41° 28° 30° BLE G-3536 " 41° 28° 30° 30° 30° 30° 30° 30° 30° 30° 30° 30	12 2 12 12 12 12 12 12 12 12 12 12 12 12		208.5) 347.2) 138.9) 006.8)
LE G-3536 " 41° 28° 30° BLE G-3536 " 41° 28° 30° 30° 355 Pg. 181 72° 30° 30° 355 Pg. 148 72° 30° 30° 3556 " 41° 28° 30° 36° 3556 " 41° 28° 30° 30° 3556 " 41° 28° 30° 30° 3556 " 41° 28° 30° 30° 3556 " 41° 28° 30° 30° 3556 " 41° 28° 30° 30° 30° 3556 " 41° 28° 30° 30° 30° 3556 " 41° 28° 30° 30° 30° 30° 30° 30° 30° 30° 30° 30	15 LA		347.2) 138.9) 006.8)
BIE G-3536 " 41° 28° 30° 3055 Pg. 181 " 41° 28° 30° 1934 Pg. 148 " 41° 28° 30° 1934 Pg. 180 " 41° 28° 30° 1954 Pg. 180 " 72° 29° 19° 180 Pg. 180 Pg. 180 Pg. 28° 19° 19° 28° 19° 19° 19° 19° 19° 19° 19° 19° 19° 19	" " " " " " " " " " " " " " " " " " "		138.9)
BLE G-3536 " 41° 28° 30° 305 Pg. 181	7		(8*900
935 Pg. 181 72° 30° 101 1934 Pg. 148 72° 30° 101 1934 Pg. 180 72° 29° 101 193536 " 41° 28° 101 193736 " 41° 28° 29° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 29° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 101 193736 " 41° 28° 28° 101 193736 " 41° 28° 101 193736	7.613#		
1934 Pg. 148 72° 30°°° G\$3536 " 41° 28°°° Pg. 180 72° 29°°° GE 5.3536 " 41° 28°°° GE 5.3536 " 41° 28°°° Pg. 180 72° 29°°°		803,1	589.1)
1934 Pg. 148 G\$3536 " 41° 28° Pg. 180 72° 29° GE 3.3536 " 41° 28° 72° 29° Pg. 180 72° 29° Pg. 180 72° Pg. 180 72°	15,618" "	1) 8.484	(1369.2)
G\$3536 " 41° 28° 19° 18° 18° 29° 19° 18° 29° 19° 29° 19° 29° 19° 29° 19° 18° 18° 18° 18° 18° 18° 18° 18° 18° 18	24,735"	574.0 (	818,3)
GE 72° 291' GE 72° 291' GE 72° 291'	15,372" 1	()	(1376.8)
Fg. 180 " 41° 281° Pg. 180	4,072"	326.5 (1	(1065.7)
Fg. 180 72° 29"	04.612" /3	142.3 (1	(1708.7)
	04,122"	95.7 (1	(1296.7)
" 410 301 02,864"	2,864" 3	1) 7.88	(1762,7)
CARLSON, 1934 Pg. 150 72, 32' 16	16,498"	382.7 (1	(1009.0)
291	49.507" 33.	1527.3 (	323.7)
No. 174 (USE) 1934 Pg. 149 72° 31' 25	25,226"	585,1 (	806.6)
G-3536 " 41° 299	49.122" 34		
RANGE LIGHT, 1915 Pg. 184 720 311 21	21.578"	500.5 (	891.2)

. Photogrammetry

MAP T9091		PROJE	CT NO.	PROJECT NOPh-31 (48)	S	SCALE OF MAP 1110,000	000,0	SCÂLE FACTOR None	5 of 5 OR None
	SOURCE OF		LATITUDE	LATITUDE OR V. COORDINATE		DISTANCE FROM GRID IN FEET.	MUTAG	N.A. 1927 - DATUM DISTANCE	
STATION	INFORMATION (INDEX)	DATUM	LONGITUDE	LONGITUDE OR x-COORDINATE		OR PROJECTION LINE IN METERS FORWARD (BACK)	CORRECTION	FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
/HAMMERSETH 'S	G-3536	N.A.	410	30, 13,68	13.686" 54			422.2 (1428.8)	
, GABLE, 1934	Pg. 184	1927		311 22.21.				515.1 (876.4)	
CLARK'S BARN	g-3536	11	]	291 57.17	57.177" 3 5			1763.9 (87.1)	
GABLE 1934	Pg. 184			301 59.374"	1,77			1377.1 ( 14.5)	
BRAINERD 'S	0-3536	11		291 45,668113	25,189			1408.9 (442.1)	
CHIMMEY 1934	Pg. 183			30' 12,623"	2311			292.8 (1098.9)	
***	G-3536	=		291 40.296	√⊱ 9 <del>€</del>			1243.1 (607.9)	
No. 176 (USE) 1934	4 Pg.182			301 53,758"	584			1247.0 (144.8)	
CHLETTE 'S	G-3536	н		291 34.93	34.936" 3 8			1077.8 (773.2)	
CHIMMEY, 1934	Pg. 183			301 39.912"	15"			925.8 (466.0)	(
ELLIS BARN	G-3536	=	, °14	291 23.977" 3	1711 39			739.7 (1111.3)	
CUPOLA, 1934	Fg. 183			301 29.848"	187			692,4 (699,5)	
YELLIS ! CHIMNEY	G-3536	=	- 1	291 22.18	82" 45			684.3 (1166.7)	
1934	Pg. 182		- 1	301 33,776"	92			783.5 ( 608.3)	
		=	- 1	291 18.2	18.235" "			562.5 (1288.5)	
No.178(USE),1934	Pg. 150			301 37.93	- "12			879,7 (512,2)	(
SMITH'S CHIMMBY	G-3536	=	410	291 02.97	02.977" VE			91.8 (1759.2	
1934	Pg. 181			301 15.383"	83"			356.9 (1035.1)	
	· ·	=		281 54.85111 14	۲۰ "۲۶			1692,2 (158.8)	
HADDAM NECK, 1862	Pg. 148		ı	291 28,515"	15"		***	661,6 (730.5)	
>	G-3536	=	- 1	281 47.8	47.834" 15			1475.7 (375.3)	
ELIAS GABLE, 1934	Fg. 180		- 1	281 12.5	15611			290.6 (1101.4)	Page
									a 2
							·		0.
1 FT. = ,3048006 METER COMPUTED BY. G. R.	Richter	Q	DATE	67/81/2		CHECKED BY. L. C. Latowe	La tove	DATE	M.2388-12
							<b>&gt;</b>		) t /== /

## COMPILATION REPORT Map Manuscript No. T-9091 Project Ph-31 (48)F

#### 31: <u>DELINEATION</u>:

Graphic methods were used for the compilation of this map manuscript.

There were no unusual methods used for the compilation work.

The field inspection was in general satisfactory. There were some places along the shoreline where the high water line was not clearly indicated by field inspection.

All planimetric details, except complete building coverage, have been detailed for the area of this map manuscript which falls within the detail limits of Nautical Chart No. 266.

For the area of this map manuscript which falls outside the detail limits of Nautical Chart No. 266, only arterial highways, railroads, drainage, and landmark buildings have been delineated.

All buildings falling within an area approximately 300 meters back from the shoreline of this map manuscript have been delineated. Outside of this area only landmark buildings have been delineated.

#### 32: CONTROL:

The horizontal control stations were well identified and the placement and density were satisfactory.

Refer to side heading 23: "Adequacy of Control" of the Photogrammetric Plot Report for additional facts.

#### 33: SUPPLEMENTAL DATA:

There were no supplemental data furnished this office for the area of this map manuscript.

#### 34: CONTOURS AND DRAINAGE:

The stereoscope was used to verify the drainage delineated by the field inspection party. Drainage not indicated by field inspection was delineated by office examination of the photographs and by comparison with the U.S. Geological Survey and Army Map Service quadrangles of the area.

Contours are not applicable.

#### 35: SHORELINE AND ALONGSHORE DETAILS:

There were some small portions of shoreline where the mean highwater line was not clearly indicated by field inspection. In these places a delineation was made by stereoscopic study of the office photographs.

A typical illustration of the lack of complete shoreline field data may be found at the small inlet which enters the southwest shoreline at Higganum. For this area no field inspection was made of the high-water line or type of ground bordering the high-water line. It appears that in general the straight even shorelines were completely field inspected but that in most cases areas were not adequately inspected where delineation in the office was difficult and at best would be based on assumptions.

Refer to sub-heading 7: "Mean High-Water" of the combined field inspection report for T-9093 and T-9094 (1948) and sub-heading 8: "Low-Water Line" of the combined field inspection report for T-9091 and T-9092 (1948).

Refer to Special Report U.S. Engineer Reference Planes Connecticut River Project Ph-31(48)F 1948. See p. 6 for filing.

The approximate limits of a small shoal area at the upstream end of Haddam Island has been delineated by office inspection of the photographs.

Alongshore details have been shown as delineated by the field inspection party.

#### 36: OFFSHORE DETAILS:

There are no offshore details.

#### 37: LANDMARKS AND AIDS:

Forms 567 are being submitted in the near future for the entire area of Project Ph-31(48)F. See 67 Review Report

#### 38: CONTROL FOR FUTURE SURVEYS:

There were six recoverable topographic stations established by air photogrammetric plot in the area of this map manuscript. Forms 524 are submitted, with this descriptive report. A list of recoverable topographic stations has been included in paragraph 49.

#### 39: JUNCTIONS:

Complete and satisfactory junctions have been made with adjoining map manuscripts.

#### 40: COMPARISON WITH EXISTING MAPS:

A visual comparison was made with U.S.G.S., Deep River, Conn., 7 1/2 min. quadrangle, Scale 1:31680, Edition of 1944.

A visual comparison was made with Army Map Service, Haddam, Conn., 7 1/2 min. quadrangle, Scale 1:25,000, Edition of 1947.

A visual comparison was made with U.S.G.S. Middletown, Conn., 15 min. quadrangle, Scale 1:62,500, Edition of 1893 reprinted 1942.

There have been numerous changes and additions in roads since this quadrangle was compiled.

#### 47: COMPARISON WITH NAUTICAL CHARTS:

Comparison was made by use of the vertical projector, with Nautical Chart No. 266, Scale 1:20,000, last printed 9/20/48 hand corrected 10/28/48.

There are numerous minor disagreements between the nautical chart and map manuscript in the location of shoreline and other planimetric detail.

Approved:

Charles W. Clark

Officer-in-Charge

J. Edward Deal Ja

J. Edward Deal, Jr.

Respectfully submitted:

Cartographer

Forms 524 are submitted for six recoverable topographic stations as follows:

- V SEARS SHOAL FRONT 61, 1948 ✓ SEARS SHOAL REAR 61, 1948 ✓ HADDAM ISLAND REAR RANGE LIGHT, 1948 ✓ HADDAM ISLAND FRONT RANGE LIGHT, 1948 ✓ WARNER'S QUARRY DOCK LIGHT, 1948 HIGGANUM #55, 1948

No photo-hydro stations were established in the area. Form 524 filed in Div. Photogrammetry general files.

#### PHOTOGRAMMETRIC OFFICE REVIEW

#### T- 9091

I. Projection and grids2. Titl	e 3. Manuscript numbers 4. Manuscript size
	CONTROL STATIONS
5. Horizontal control stations of third-or	der or higher accuracy6. Recoverable horizontal stations of les
	stations)7. Photo hydro stations8. Bench marks
	. Photogrammetric plot report 11. Detail points
	ALONGSHORE AREAS
	(Nautical Chart Data)
12. Shoreline13. Low-water li	ne 14. Rocks, shoals, etc 15. Bridges 16. Aids
	18. Other alongshore physical features 19. Other along -
shore cultural features	
	PHYSICAL FEATURES
20. Water features 21. Natura	al ground cover 22. Planetable contours 23. Stereoscopic
nstrument contours 24. Conto	ours in general 25. Spot elevations 26. Other physica
features	
	CULTURAL FEATURES
27. Roads 28. Buildings	29. Railroads 30. Other cultural features
	BOUNDARIES
31. Boundary lines 32. Public	c land lines
	MISCELLANEOUS
33. Geographic names 34. Jur	nctions 35. Legibility of the manuscript 36. Discrepancy
overlay 37. Descriptive Report	38. Field inspection photographs 39. Forms
40. Ree N. Batton Reviewer	Supervisor, Review Section or Unit
Noticinal	y Supervisor, Neview Section of Sing
41. Remarks (see attached sheet)	
FIELD COMPLETION	ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished manuscript is now complete except as r	by the field completion survey have been applied to the manuscript. The noted under item 43.
Compiler	Supervisor
43. Remarks:	M-2623-12

#### 48: GEOGRAPHIC NAME LIST:

Chart #266 Army Map Service HADDAM QUAD Connecticut River Candlewood Hill Road Haddam\_Island\_Bar\_ Haddam Neck (bothland area and Higganum Creek Settle ment) √ Higganum Reservoir VUpper Pond MN Creak Beaver Meadow Bray-Rock Landing Bar (1944 B. L. N.) Moodus River FIELD INSPECTION Rock Landing Bar ¹Salmon River \ Scovill≤ Rock ✓ Higganum Cemetery Scovill Rock Bar Maple Avenue Sears Shoal /St. Peters Cemetery DEEP RIVER, CONN. USGS Quads: MOODUS, CONN. MIDDLE HADDAM, CONN. Bible Rock Brook chis is name (Brainerd also on all available sources) thise d in this gnonoral recently Brainard Homestead State Park (mis in mame Cave Hill Cove Meadow\_ Conn. State Hwy #151 Higganum Hurd Park Hubbard Brook Mames underlined in red are approved 5-13-51 Johnson Mill Pond Leesville Maromas Road Middlesex\_Turnpike Mt. Tom √ Moodus Old Rock Landing Cemetery Pine Brook River Road State No. 149 Salmon River Cove (Salmon Cove is 1950 B.6 N.) Sexton Hill Shailerville & Wopowog Now york, New Hevan and Hartford in Note: Final name sheet was not furnished. Geographic names were obtained from sources shown above. Additional Names, mostly on mannacript (SE to MW): Joid Cove Burying Ground Walkley Hill Place Road Ground Walkley Hill Warners Quarry Bar Depot Road

Warners Quarry Bar Willingworth Rose

Med Store Landing Home Lake Avenue

Wildlesex County Home Lake Avenue

Jupper Road

Review Report T-9091 Shoreline Manuscript 16 May 1951

#### 62. Comparison with Registered Topographic Surveys:

T-2008 1:10,000 1890 (with contours)
Except for contours T-9091 supersedes the older survey for shore and near-shore features for charting purposes.

#### 63. Comparison with Maps of other Agencies:

USE Haddam, Conn. 1:25,000 1947 USE Deep River, " " " " " USGS Middle Haddam, Conn. 1:31680 1945 ed. USGS Moodus, " 1946 ed.

- 64. Comparison with Contemporary Hydrographic Surveys:
- 65. Comparison with Nautical Charts:

266 1:20,000 ed. July 1947 rev. Nov. 1950
Warners Quarry Dock Light is labeled "51" on the chart, though it bears the number "49" on T-9091 and in the Light Lists. Lt"49 was discontinued Lt"51" in new position-see votice to Mariners vo.32 (1950).

## 66. Control:

Triangulation station "Clarkhurst Golf Links Clubhouse Gable, 1934" is described (279,p.4) as the finial on the cupola and it appears on the charts as a landmark "Cup". The discrepancy between Geographic Positions name (p.186) and the description name was brought to the attention of Geodesy. They have changed the name in the Positions list to read: "Clarkhurst Golf Links Clubhouse Cupola, 1934".

## 67. Landmarks and Aids: (Chart Letter No. 35(1951))

Landmarks (Triangulation stations)

SPIRE: Haddam Neck Cong. Church Spire, 1934
SPIRE: Higganum Meth. Church Spire, 1934 See 40 1934
CUPOLA: Clarkhurst Golf Links Clubhouse Cupola,
1934

Aids:
Warners Quarry Dock 49 ("51" on Chart 266)
Haddam Island Front Range 52
Haddam Island Rear Range 52
Rock Landing Front Range 54
Rock Landing Rear Range 54

Higganum 55 Sears Shoal Front Range 61 Sears Shoal Rear Range 61

### 68. Accuracy:

The map complies with project instructions and with the National Standards of map accuracy.

Reviewed by:

Approved by:

Division of Photogrametry

Division of Charts 6Fd

Chief, Division of

Photogrammetry

Surveys