

13302

13302

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)
Job No. PH-6815 Map No. T-13302 ✓
Classification No. Edition No. 1
Field Edited Map

LOCALITY

State Connecticut
General Locality Connecticut River
Locality East Hartford

19 68 TO 19 69

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T-13302

①

PROJECT NO. (II): PH-6815		
FIELD OFFICE (II): None		CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center, Norfolk, Virginia		OFFICER-IN-CHARGE Alfred C. Holmes, RADM, NOAA
INSTRUCTIONS DATED (III) (III): Aerotriangulation and Compilation - December 4, 1968 Office - AMENDMENT I - January 14, 1969		
METHOD OF COMPILATION (III): Wild B-8 Plotter and Graphic		
MANUSCRIPT SCALE (III): 1:10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:20,000 pantographed to 1:10,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV): JUL 29 1974
GEOGRAPHIC DATUM (III): N.A. 1927		VERTICAL DATUM (III): MHW XXXXXXXXXX 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 XXXXXXXXXXXX
REFERENCE STATION (III): Hartford, Mrs. Sage's House, Tower, 1891 ✓		
LAT.: 41° 48' 00.635" (19.6 m) ✓	LONG.: 72° 39' 44.127" (1018.8 m) ✓	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): x = 352,295.62 ft. ✓ x = 623,925.11 ft. ✓		STATE Connecticut ✓
ZONE		
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.		

DESCRIPTIVE REPORT - DATA RECORD

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(2)

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography: October 1, 1968 <i>Refer to the Field Edit Report (heading 52, page 17)</i>		
PROJECTION AND GRIDS RULED BY (IV): A. Bethea		DATE November 19, 1968
PROJECTION AND GRIDS CHECKED BY (IV): L. Van Scoy		DATE November 26, 1968
CONTROL PLOTTED BY (III): Aerotriangulation - J. Steinberg Triangulation - A. C. Rauck, Jr.		DATE March 4, 1969 March 17, 1969
CONTROL CHECKED BY (III): Aerotriangulation - J. Minton Triangulation - C. Bishop		DATE March 4, 1969 March 17, 1969
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): I. I. Saperstein		DATE January 16, 1969
STEREOSCOPIC INSTRUMENT COMPILATION (III): Wild B-8	PLANIMETRY L. O. Neterer, Jr. Reviewed by: C. H. Bishop	DATE May 28, 1969 May 28, 1969
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): L. O. Neterer		DATE June 9, 1969
SCRIBING BY (III): J. Hinton		DATE June 23, 1970
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation: C. Bishop Field Edit: A. Shands Scribing and Stick-up: B. Barge		DATE July 7, 1969 March 9, 1970 August 3, 1970
REMARKS: Field Edit by: R. E. Kesselring <div style="text-align: right;">Date November 12, 1969</div>		

DESCRIPTIVE REPORT - DATA RECORD
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CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "E"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
68E(C)7952-7953	Oct. 1, 1968	10:42	1:40,000	2.3' above M.L.W.
68E(C)8025-8026	Oct. 1, 1968	12:33	1:20,000	2.0' above M.L.W.
68E(C)8057-8060	Oct. 1, 1968	13:01	1:20,000	1.8' above M.L.W.

Predicted TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE		
REFERENCE STATION: New London, Connecticut, State Pier		2.6'	3.1'		
COORDINATE STATION: Hartford, Connecticut		1.7'	2.0'		
SUBORDINATE STATION:					
WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs	DATE: September, 1972				
PROOF EDIT BY (IV):	DATE:				
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 1	RECOVERED: 1	IDENTIFIED: 1			
NUMBER OF BM(S) SEARCHED FOR (II): None	RECOVERED:	IDENTIFIED			
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None					
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None					

REMARKS:

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T-13302

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	June 1969	Superseded
Field Edit Applied; Compilation Complete	February 1970	Superseded * (see below)
Final Review	September, 1972	

* Chart Maintenance Print (Advance Manuscript copy) forwarded to Marine Chart Division on July 19, 1970.

Scribing and stick-up completed in the Compilation Section on Aug. 3, 1970.

Chart Maintenance Print (final reviewed copy) forwarded to the Rockville Office on Dec. 15, 1972 — to Chart Division July, 1974

AB

2,400,000 FEET (N.Y. L.I.)

30'

SETTS HAMPTON CO

OFFICIAL MILEAGE FOR COST ACCOUNTS

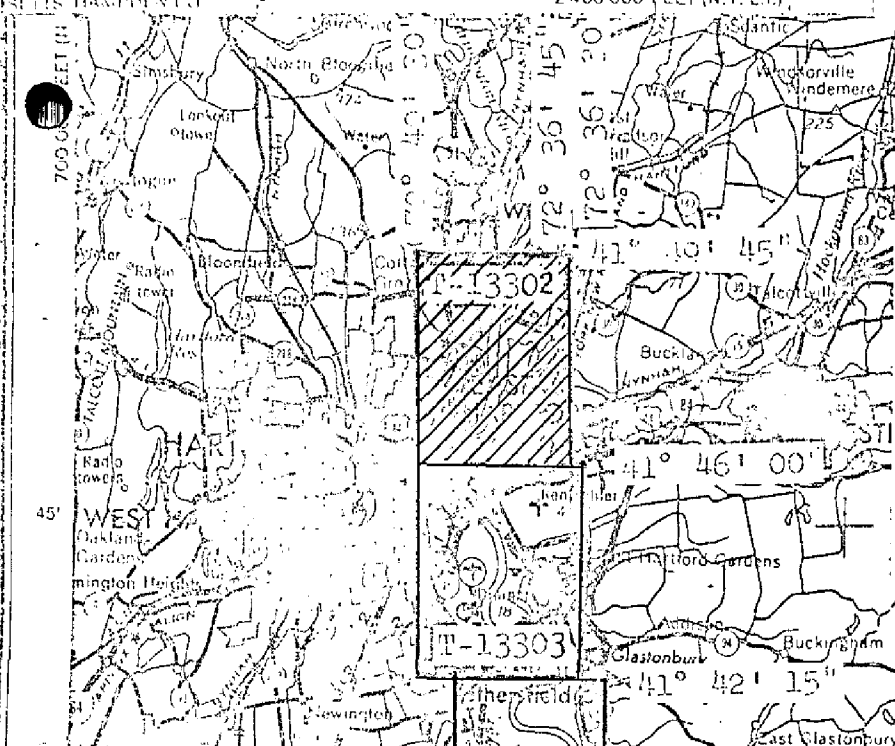
Sheet No. 5

Area Sq.
Miles

T-13302	2
T-13303	3
T-13304	4
T-13305	3
T-13306	2
T-13307	3
T-13308	2
T-13309	2
T-13310	1
T-13311	2
TOTAL	24

1,600,000 FEET (N.Y. L.I.)

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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-13302

Shoreline survey T- 13302 is one of 10 similar surveys in project PH-6815. The primary purpose of the project is to provide up-to-date shoreline and photo-hydro support data for the hydrographic surveys in the Connecticut River area. See page 5 for the area covered by the project and the location of this survey within the project.

There was no field work prior to compilation with the exception of premarking of horizontal control. ~~for identification prior to the flying of photography.~~

Compilation was at 1:10,000 scale by ~~Wild B-8~~ Plotter using ^{Stereo} photography of October, 1968. Copies of the incomplete manuscript along with specially prepared photographs and ozalids were furnished for the transfer of the shoreline to the boat sheet, photo hydro support use and field edit. ^{and graphic methods}

The compilation manuscript is a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds longitude. After field edit data was applied the survey was scribed and reproduced on cronaflex. Final review was at the Atlantic Marine Center in October 1972. One cronaflex positive and negative of the final reviewed survey are forwarded for record and registry.

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FIELD INSPECTION REPORT

T-13302

PROJECT PH-6815

There was no field inspection prior to compilation.

Photogrammetric Plot Report
Job "H-C315"
Conn. River, Conn.

January 16, 1969

21. Area Covered

This report covers the Connecticut River, Connecticut, from latitudes $41^{\circ}23'30''$ to $41^{\circ}45'45''$ and consists of ten (10) 1:10,000 scale T-sheets, T-13302 thru T-13311.

22. Method

Two (2) 1:40,000 scale and one (1) 1:20,000 scale strips of color photographs were bridged by analytical aero-triangulation methods.

The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustments. Closure to horizontal control on Connecticut state plane coordinates are shown for each strip on the IBM readouts.

23. Adequacy of Control

All horizontal control was premarked and appeared on the photographs very clear. Strip 3 was controlled by ties from strip 2 and held very well.

24. Supplemental Data

Vertical control needed for the adjustment was taken from USGS quadrangles.

25. Photography

The definition and quality of the RC-8 "E" color photography were good. Coverage was adequate to compile all sheets.

Cronapaque and matte ratio prints have been ordered for the 1:20,000 scale color photographs on black and white base.

9

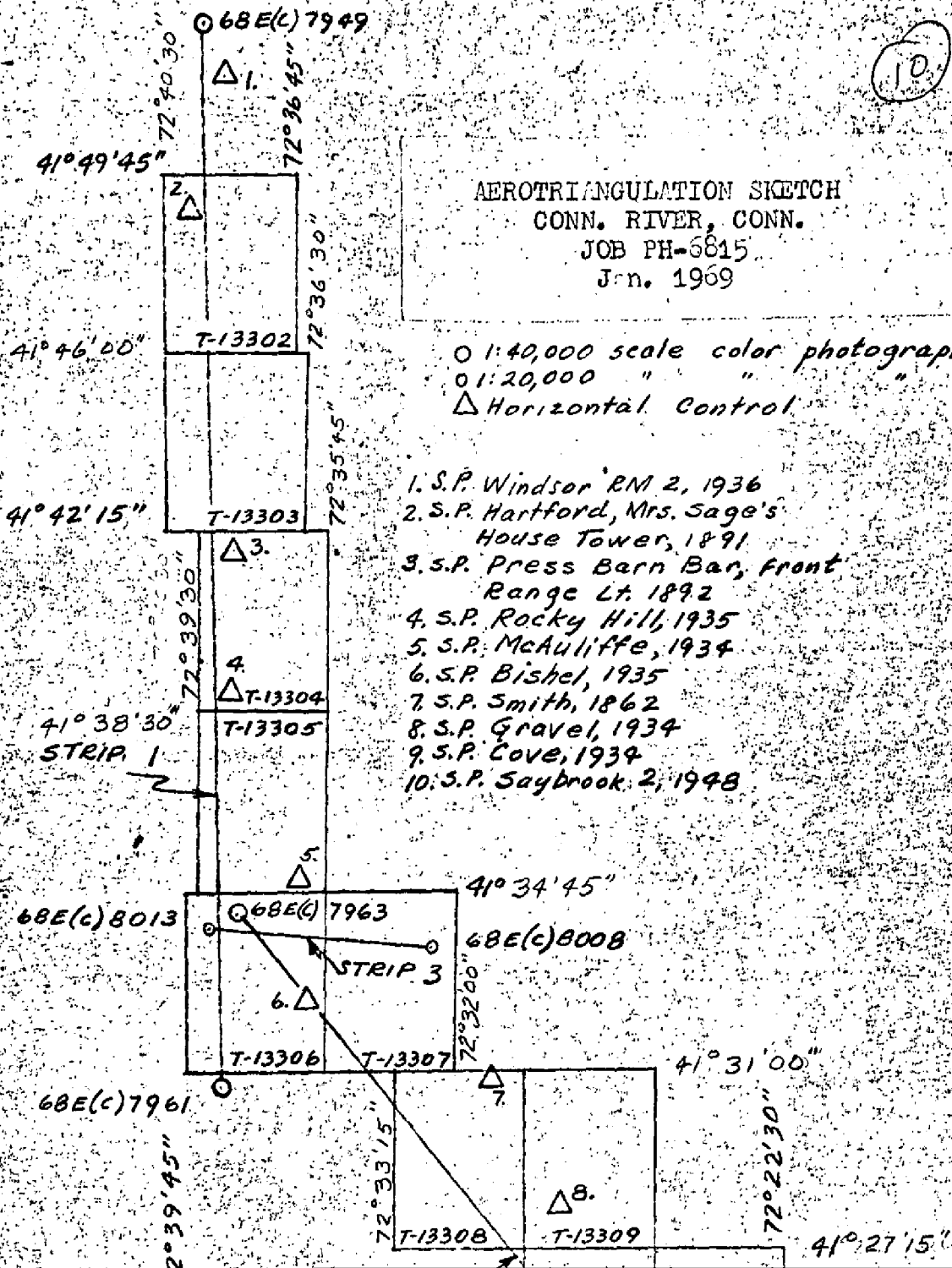
Co. Connecticut River, Connecticut
Job PH-6815

Notes to Compiler

It will be noted that many bridge points classified 500 e.g. 19503 are shown on the IBM readouts and pricked on the 1:20,000 scale contact photographs. These points were to be used to orient the 1:20,000 scale ratio prints for hydro support. This was done by Washington Compilation

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1. S.P. Windsor, RM 2, 1936
2. S.P. Hartford, Mrs. Sage's House Tower, 1891
3. S.P. Press Barn Bar, Front Range Lt. 1892
4. S.P. Rocky Hill, 1935
5. S.P. McAuliffe, 1934
6. S.P. Bishel, 1935
7. S.P. Smith, 1862
8. S.P. Gravel, 1934
9. S.P. Cove, 1934
10. S.P. Saybrook 2, 1948



COMPIIATION REPORT

T-13302

PROJECT PH-6815

31. DELINEATION:

The Wild B-8 was used, utilizing the 1:40,000 scale bridging photography. The 1:20,000 scale photography was ratioed to 1:10,000 scale and used to compare and refine details where necessary.

Photography was adequate as to coverage; however, it would have assured a more accurate interpretation of the mean high water line if the photography had been flown in late winter or early spring before the foliage is on the heavy deciduous vegetation that falls along most of the shoreline.

32. CONTROL:

See Photogrammetric Plot Report, dated January 16, 1969.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line was compiled from office interpretation on the Wild B-8, and refined graphically with 1:10,000 scale ratio prints of the 1:20,000 scale photography. Tree overhang made it difficult to properly identify the mean high water line in places, but the compilation is believed to be within the required limits of accuracy.

The low water line was compiled from office interpretation of the 1:20,000 scale ratio photos ~~at a distance of 1000 feet~~
11,000

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

Form 567 for landmarks was submitted under date of March 4, 1970.

There were no nonfloating aids.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junction with T-13303 to the south is in agreement. There are no contemporary surveys to the north, east, or west.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S.G.S. Quadrangle HARTFORD NORTH, CONNECTICUT, scale 1:24,000, dated 1964, reprinted 1966.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with U.S.C. & G.S. Chart 267, scale 1:20,000, 4th edition, dated January 1, 1968.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Lowell O. Neterer, Jr.

Lowell O. Neterer, Jr.
Cartographic Technician

~~June 5, 1969~~

March 4, 1970

Approved for forwarding:

Melvin J. Umbach
Melvin J. Umbach, CDR
Chief, Coastal Mapping Div., AMC

Approved:

Alfred C. Holmes
Alfred C. Holmes
RADM, NOAA
Director, AMC

(15)

OCT 4 1972

GEOGRAPHIC NAMES

FINAL NAME SHEETS

PH-6815 (Conn.)

T-13302

Bissell Bridge

Bulkeley Fixed Bridge

Connecticut River

Deckers Brook

East Hartford

East Hartford Dike

Goodwin Brook

Governor St.

Hartford

Meadow Brook

Newberry Brook

New York New Haven & Hartford (RR)

North King St.

North Meadows Dike

Podunk River

Veterans Highway

Vibert Street

Wilson

Approved:

G. P. Meredith
G. P. Meredith
Chief, Scientific Data and
Services Division

Prepared by:

A. J. Wraight
A. Joseph Wraight
Chief Geographer

PHOTOGRAMMETRIC OFFICE REVIEW
T. 13302

1. PROJECTION AND GRIDS C.H.B.	2. TITLE C.H.B.	3. MANUSCRIPT NUMBERS C.H.B.	4. MANUSCRIPT SIZE C.H.B.
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY C.H.B.	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X		7. PHOTO HYDRO STATIONS X
8. BENCH MARKS X	9. PLOTTING OF SEXTANT FIXES X	10. PHOTOGRAMMETRIC PLOT REPORT Bridge - W.O.	11. DETAIL POINTS C.H.B.
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE C.H.B.	13. LOW-WATER LINE C.H.B.	14. ROCKS, SHOALS, ETC. C.H.B.	15. BRIDGES C.H.B.
16. AIDS TO NAVIGATION None	17. LANDMARKS C.H.B.	18. OTHER ALONGSHORE PHYSICAL FEATURES C.H.B.	19. OTHER ALONGSHORE CULTURAL FEATURES C.H.B.
PHYSICAL FEATURES			
20. WATER FEATURES C.H.B.	21. NATURAL GROUND COVER X		22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES X
CULTURAL FEATURES			
27. ROADS C.H.B.	28. BUILDINGS C.H.B.	29. RAILROADS C.H.B.	30. OTHER CULTURAL FEATURES C.H.B.
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES C.H.B.	34. JUNCTIONS C.H.B.		35. LEGIBILITY OF THE MANUSCRIPT C.H.B.
36. DISCREPANCY OVERLAY C.H.B.	37. DESCRIPTIVE REPORT C.H.B.	38. FIELD INSPECTION PHOTOGRAPHS None	39. FORMS C.H.B.
40. REVIEWER Charles H. Bishop C. H. Bishop		Date 6-25-69 SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. Albert C. Rauck, Jr.	
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 R. E. Smith Date: 2-20-70		SUPERVISOR Albert C. Rauck, Jr. Date: 3-9-70	
43. REMARKS Field edit applied from: Field edit ozalid; Form 152; Form 37; sketch "B"; and field edit photos Nos. 68-E(C)8057 thru 8060. Field edit was excellent.			

FIELD EDIT REPORT
CONNECTICUT RIVER, CONN.
JOB PH-6815
MAP T-13302

52. ADEQUACY OF COMPILATION

Compilation was adequate. A few minor shoreline changes were indicated in areas where overhanging trees and/or heavy shadows obscured the MHWL. One small cove, at Lat. $41^{\circ} 46.3'$, Long. $72^{\circ} 40.1'$, was overlooked. It was inked on the color photographs and outlined, approximately, on the field edit ozalid. Two or three intermittent streams and one flowing stream were not mapped. One compiled pier and a piling were not extant and were deleted from the field edit ozalid. Measurements to the MHWL were made from the ends of the groins in the southerly portion of the map. These groins are all of the same construction, but debris piled against one of them, caused it to be incorrectly delineated. Attention was called to this on the field edit ozalid.

Railroad tracks and sidings were verified and the number of tracks indicated. Corrections or additions were made where necessary. Attention is called to the

57. GEOGRAPHIC NAMES

Investigations of geographic names was limited to street names and highway numbers. There were no indications of any U. S. Alternate 5. There are no highway markers with this route number and interviews with local residents failed to identify it. Recommend that it be deleted as superfluous.

The name BULKELY FIXED Bridge is incorrectly spelled on the map manuscript. The correct spelling is: BULKELEY FIXED BRIDGE.

No other discrepancies were noted during field edit.

58. ROCKS AND SHOALS

There are no rocks worthy of mention on this map.

There are numerous shoals and shallow areas within the limits of this sheet. Most of them were correctly delineated, although, in one or two cases the limits were extended somewhat by the field editor. One large shoal, just south of the Bissell Bridge was not mapped. It was indicated on the color photographs by a dashed line and outlined, approximately, on the field edit ozalid. The footings of the Bissell Bridge have also caused shallows. These, too, are visible on the photos and appropriate action was taken. A smaller shoal, in the approximate center of the sheet, was also overlooked. Many of the shoals and shallows bare or are awash at MLW. These areas were indicated on the field edit ozalid. Depths were given on various shoals where possible.

59. PHOTOGRAPHY

Photography consisted of black and white copies of color photography and, later, color photographs. Field edit notes were made entirely on the color photographs. The photography was good, but it does not appear that any effort was made to fly the photography at or near mean low water. Low water photography would have facilitated delineation of areas that bare or are awash at MLW.

60. DISPOSITION OF DATA

The field edit ozalid, field prints containing field edit information and the processed cronapaque office prints, along with all pertinent data were forwarded to the Atlantic Marine Center. The film ozalids, copies of form 567's and copies of form 526's were transmitted to the hydrographic field party. The original form 526's were transmitted to Geodesy.

Rick H. Kessler

REVIEW REPORT T-13302

SHORELINE

OCTOBER 1972

61. GENERAL STATEMENT

See summary, which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A visual comparison was made with T-9087, July, 1952, 1:10,000 scale. Discrepancies are noted on the comparison sheet in blue.

The shoreline of ^{at} these surveys is superseded by T-13302 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with U.S.G.S. Hartford North, CT, 1:24,000 scale quadrangle, edition of 1964. Discrepancies are noted on the comparison print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with boat sheet H-9086 Boat Sheet 9475, 10-8-69, 1:10,000 scale. The source of the shoreline appears to be the incomplete manuscript of T-13302.

No significant differences between the boat sheet and survey T-13302 were noted.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 267, Conn. River, Bodkin Rock to Hartford, 6th edition dated March 25, 1972, 1:20,000 scale.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by:

Bernard Kurs

Bernard Kurs
Cartographer

Approved for forwarding:

Melvin J. Umbach
Melvin J. Umbach, CDR, NOAA
Chief, Coastal Mapping Div., AMC

Approved:

Alfred C. Holmes
Alfred C. Holmes
RADM, NOAA
Director, AMC

Approved:

Charles L. Hemm
Chief, Photogrammetric Branch

Walter V. Self
Chief, Coastal Mapping Division

72° 39'

38' 30"

x = 630,000 FT.

38'

(24)

Brown- USGS
Red- Chart 267
Blue- T-9087 Reg.

VIBERT STREET

49' 30"

Newberry Brook

TOWER 1969 (Steel)
ht = 215 (235)

Tower

Ovhd cable

Ovhd cable

Tower

Tower

41° 49'

68-E(C)-8060

BISSELL BRIDGE

TOLL

Boat ramp

NORTH KING ST.

291

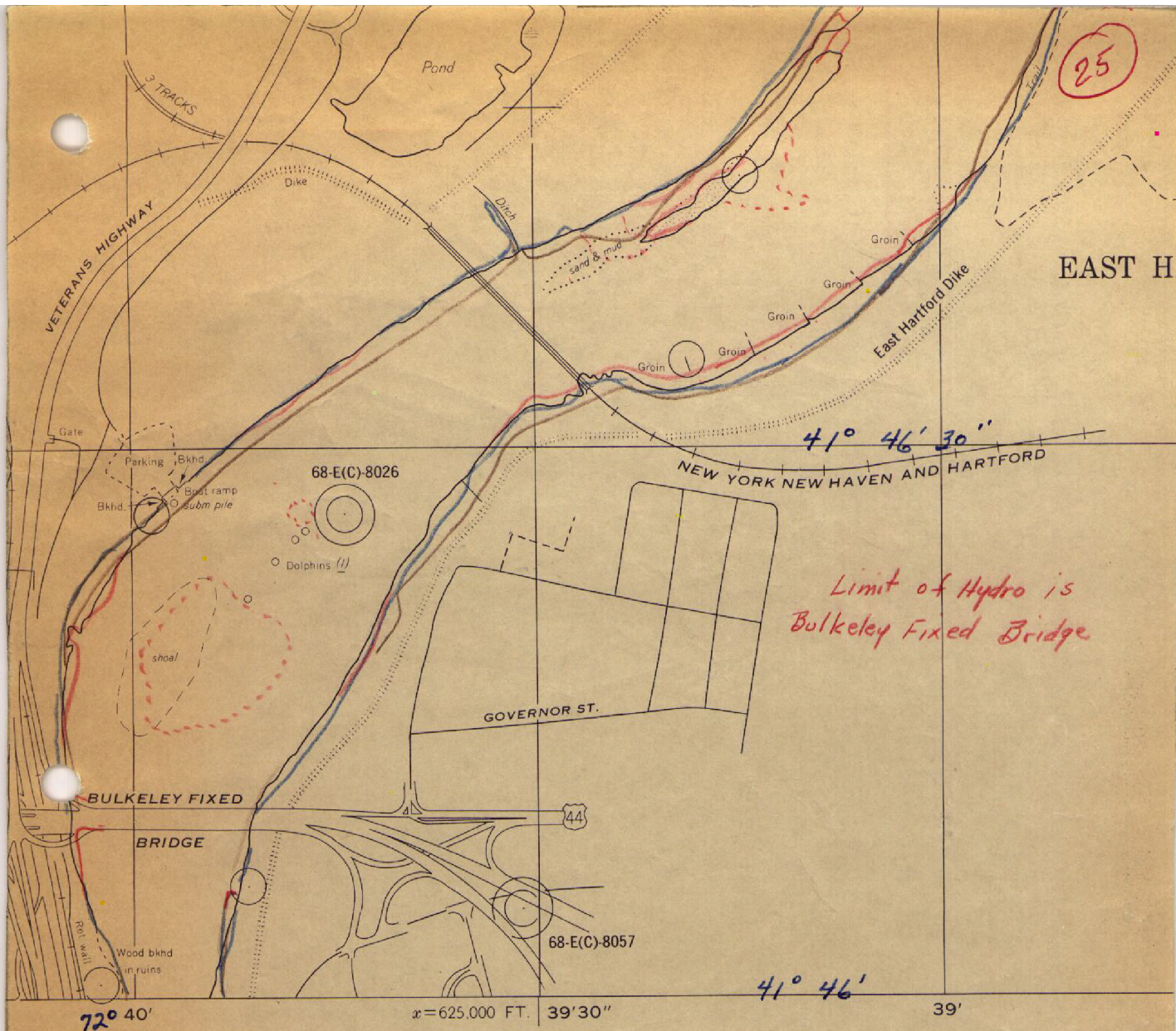
UNDER CONSTRUCTION

Deckers Brook

V E R

48' 30"

subm grom



PH-6815

Brown- USGS

Red- Chart 267

Blue-T-9087 Reg

NOTE: Unlabeled circles are photogrammetric not points; not map features

LEGEND

Sand

Marsh

Swamp (Cy

Road (hard

Road (dirt

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

T-13302

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

[illegible]