

FE176

WIRE DRAG

Diagram No. 1209-3

NOAA FORM 76-35A

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

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey Wire Drag
Field No. SP 11-60
Office No..... FE-176WD

LOCALITY

State Massachusetts
General Locality .. Vineyard Sound
Locality West Chop

1960

CHIEF OF PARTY

D.G. Rushford & K.A. MacDonald

LIBRARY & ARCHIVES

DATE November 1960

☆ U.S. GOV. PRINTING OFFICE: 1978-666-172

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date in the new format is the actual date of survey. This material was previously registered as;

FE No.4 1960WD

FE176
WIRE DRAG

F E No. 4 1960 WIRE DRAG

Diag. Cht. No. 1209-3.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey WIRE DRAG

Field No. SP 11-60 Office No. F.E. No. 4, 1960
Wire Drag

LOCALITY

State Massachusetts

General locality Vineyard Sound

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1960

CHIEF OF PARTY

D. G. Rushford & K. A. MacDonald

LIBRARY & ARCHIVES

DATE November, 1960

USCOMM-DC 5087

F E No. 4
1960
WIRE DRAG

CM 11 36

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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

REGISTER No. F.E.No.4, 1960
Wire Drag
Field No. SP 11-60

State Massachusetts

General locality Vineyard Sound

Locality West Chop

Scale 1:10,000 Date of survey 8/9/60-10/10/60

Instructions dated _____

Vessel WAINWRIGHT - HILGARD and GILBERT

Chief of party D. G. Rushford and K. A. MacDonald

Surveyed by _____

Soundings taken by fathometer, graphic recorder, hand lead, wire _____

Fathograms scaled by _____

Fathograms checked by _____

Protracted by _____

Soundings penciled by _____

Soundings in fathoms feet at MLW MLLW _____

REMARKS: _____

UNITED STATES DISTRICT COURT

	<u>Lat. & Long</u>	<u>Eff. hang</u>	<u>cleared by</u>	<u>sdg</u>	
4.	41° 28' 47.4" 70° 35' 37.0"	9	7	7	(15-17B)
5.	41° 28' 45.5" 70° 35' 36.7"	sdg	not cleared	7	

L

USCGC SHIPS WAINWRIGHT & HILGARD

U. S. DEPARTMENT OF COMMERCE
 COAST AND GEODETIC SURVEY
 102 W. Olney Road
 Norfolk 10, Virginia

935 (1960)

①

OCT 6 1960
 22 f w
 S. J. W.

AIR MAIL

4 October 1960

To: Director
 Coast & Geodetic Survey
 U S Department of Commerce Building
 Washington 25 D C

Subject: Special Report - SP 11-60; Wire Drag, West Chop, Vineyard Sound, Massachusetts

Dragging operations for the reported obstruction(s) were completed 1 October with the following obstructions discovered and are recommended for charting: 46.0

	Lat. & Long.	Date	Time	Upright	Lift	Tide	Eff. Hang	Reduced Sounding
1.	41° 28' 46.5" N 70° 35' 36.5" W	10/1/60	1326	10'	13.0'	0.5'	12.0'	11.5' (cleared by 10 ft.)
2.	41° 28' 50.5" N 70° 35' 38.0" W	10/1/60	1505	13'	1.0'	1.0'	11.0'	13.0' (cleared by 10 ft.)
3.	41° 28' 54.5" N 70° 35' 41.5" W	10/1/60	1603	11'	1.0'	1.0'	9.0'	9.0' (cleared by 8 ft.)

Upon picking up the drag at each obstruction a great amount of seaweed was removed from the wire. Caught among the seaweed were numerous rocks reaching up to a size of 3 or 4 inches in the longest dimension. All the hangs were cleared on 29 September with a drag from North to South with an effective depth of 8 feet.

Conclusions reached are as follows:

The area extending for 600 yards from buoy "M4" toward buoy "G25" and from the line between the two buoys 60 yards toward the beach is rife with boulders and/or piles of smaller rocks. Because of the shoal water the area nearer the beach was not dragged but it is likely that the same type of rocks extend further toward the beach.

Obstruction No. 4 is probably the one Mr. C. F. Adams reported to the Boston District Officer since it is shoaler than the draft of his boat and is in the position described in his letters. It is definitely inside the line between the two buoys.

The area 200 yards outside the line between the buoys was cleared to an effective depth of 10 feet or greater.

It was noted that 90% of the boats in the area went inside of one or both of the buoys.

Boat sheets, record books, tender records, and tide data will be forwarded at an early date. Attached is message forwarded to First Coast Guard District from local Coast Guard station.

No further wire drag is recommended for this area.

Dewey G. Rushford
Dewey G. Rushford
Lt. Commander, C&GS
Commanding WAINWRIGHT
& HILGARD

PTR/jrb

10/21/60 Receipt ack. by 6orm:es

/s/ J. E. Waugh *[Signature]*

C
O
P
Y

CHARLES F. ADAMS

180 Willow St.
Waltham 54, Massachusetts

21 July 1960

First Coast Guard District
Boston, Massachusetts

Dear Sir:

At about 1300 on Saturday, 16 July, while proceeding along a line from Alleghany Rock, Can Buoy 25 off West Chop on a line to Nun 4, and when about 300 yards from Nun 4, I struck a "submerged object".

My boat is a 50' cutter drawing 7'4". Since Chart #347 shows 13' of water at this point and for some distance towards the shore. I was very much surprised by this. Either one of these buoys is substantially out of position or there is a rock here which the surveys must have missed.

Since this is a well traveled area, I would recommend that you investigate and see to it that proper corrections are made on future charts.

Very truly yours,

S/ Charles F. Adams

CHARLES F. ADAMS
100 WILLOW STREET
WALTHAM 54, MASSACHUSETTS

21 July 1960

*Tide 1 hr. past
+ 0.1 low*

First Coast Guard District
Boston, Massachusetts

*1240 slack
1600 mat. flood*

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Very truly yours,

C Adams

TO: []		FROM: []	
[]		[]	
[]		[]	
RECEIVED JULY 22 1960			
[]	[]	[]	[]
[]	[]	[]	[]
[]	[]	[]	[]

C
O
P
Y

c
H3
26 July 1960

COMMANDER
First Coast Guard District
11400 Custom House
Boston, Massachusetts

From: Commander, First Coast Guard District
To: District Officer
US Coast and Geodetic Survey
Custom House
Boston 9, Mass.

Subj; Reported Submerged Object

1. Enclosed, is a self explanatory copy of a letter received from Mr. Charles F. Adams, 190 Willow Street, Waltham 54, Mass.
2. The two buoys mentioned, Alleghany Rock Buoy 25 and Vineyard Haven Buoy 4, were checked and found on position 22 July 1960.
3. A copy of this office's reply to Mr. Adams is enclosed.

H. M. HARTLOVE
By direction

Encl: (1) Copy of C. F. Adams ltr dtd 21 July 1960
(2) CCGDONE reply to Mr. Adams

1st Endorsement

To: CO GILBERT 27 July 1960

Please investigate this at some convenient time. We have no data on previous surveys in the area, so I do not know how good our coverage of that area is. This may be something or he may have been set over into shoal water without being aware of it. Please let me know when and what you find. If you can not schedule it for a while, please let me know when you can fit it in.

G. L. Short
Lcdr., C&GS
Boston District Officer

C
O
P
Y

o
H3-1
26 July 1960

COMMANDER
First Coast Guard District
1400 Custom House
Boston, Massachusetts

Mr. Charles F. Adams
190 Willow Street
Waltham 54, Mass.

Dear Mr. Adams:

This is in reply to your letter of 21 July 1960, reporting the possibility of an uncharted submerged object or that Alleghany Rock Buoy 25 or Vineyard Haven Buoy 4 might be off station. Both buoys were checked on 22 July and found to be exactly on position.

Inasmuch as a possibility then exists that an uncharted rock or other submerged object may now be located in that vicinity, copies of your letter are being forwarded to the Division Engineer, New England Division, Corps of Engineers, U.S.Army, and to the District Officer, U.S.Coast and Geodetic Survey Office, Boston, for their information and whatever action they deem necessary.

Sincerely yours,

H. M. HARTLOVE
Lieutenant, U.S.Coast Guard
Assistant to Chief, Aids to Navigation Sec.
By direction of the District Commander

Copy to:
NED, Corps of Engineers
USC&GS, Boston

COMMANDER
First Coast Guard District
1400 Custom House
Boston, Massachusetts

c
H3
26 July 1960

From: Commander, First Coast Guard District
To: District Officer
US Coast & Geodetic Survey
Custom House
Boston 9, Mass.

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Boston District Officer

COMMANDER
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H. M. HARTLOVE
Lieutenant, U. S. Coast Guard
Assistant to Chief, Aids to Navigation Sec.
By direction of the District Commander

Copy to:
NED, Corps of Engineers
USC&GS, Boston

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

8 September 1960

Boston District Office
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Investigation of reported submerged object by
GILBERT

Enclosed is a report of a search by the GILBERT's launch for a reported submerged object. This object was reported to the Coast Guard who advised the Corps of Engineers and this office. The GILBERT was requested by this office to make a search while their launch was en route Woods Hole to their working area. Also enclosed is a transmitted letter of search records.

Mr. Adams advised me over the telephone the weather was clear and the sea fairly flat. He bumped solidly and went over a definite rock. He was not inside the line of buoys as the buoy ahead (N 4) was on his starboard bow and Buoy C 25 was on the starboard quarter. If he sails the line on a higher tide he will run his depth finder and get a "fix" when he gets an indication. The local boat yard advises that others have struck similarly. Mr. Adams is an ex-Navy officer and seems to be a good sailor.

I feel the sounding lines are not conclusive evidence that a rock does not exist and request that the WAINWRIGHT and HILGARD drag the area to a 10-foot depth before they go south.

G. L. Short
CDR., C&GS
District Officer

CC: USCG
Corps of Engineers
CO WAHI

Boston District Office
Coast and Geodetic Survey
10th Floor, Custom House
Boston 9, Massachusetts

Boston District Office

GLS:es

8 September 1960

Boston District Office
XXXXXXXXXXXXXXXXXXXXXXXXXXXX

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G. L. Short
CDR., C&GS
District Officer

CC: USCG
Corps of Engineers
CC WAHI

*Dewey — reported
This is a rock 1/3 of the way from Buoy N4
to Buoy C25 east of West Chop (Chart No 347)*

LETTER TRANSMITTING DATA

DATE

8 September 1960

TO:

The Director
Coast & Geodetic Survey
Washington 25, D.C.

DATA AS LISTED BELOW WERE FORWARDED TO YOU BY (Check):

- ORDINARY MAIL
- certified mail*
- REGISTERED MAIL
- AIR MAIL
- EXPRESS
- G.B.L. (Give number) _____

DATA WERE FORWARDED (Date)

9 September 1960

(NOTE - A separate transmittal letter is to be used for each type of data, as tidal data, seismology, geomagnetism, etc. State the number of packages and include an executed copy of the transmittal letter in each package. In addition the original and one copy of the letter should be sent under separate cover. The copy will be returned as a receipt. This form should not be used for correspondence or for transmitting accounting documents.)

Hydrographic Investigation by USC&GSS GILBERT

1. Chart No. 347
2. One sounding Volume Form 275
3. One Fathogram

JL Short (Signature)

Division or Party

Location

RECEIVED
THE ABOVE

NAME

TITLE

C
O
P
Y

CHARLES F. ADAMS
190 WILLOW STREET
WALTHAM 54, MASSACHUSETTS

14 September 1960

CDR. G. L. Short, C&GS
District Officer
Custom House
Boston, Mass.

Dear Commander Short:

The Sunday following our telephone conversation I made a number of passes along the line between the two buoys off Vineyard Haven. This was at dead low water and although I could see the bottom, my fathometer did not indicate any water of less depth than about 12'. Since I would have struck the thing again if I had found it, I had to be a little careful.

The only conclusion I can reach is that whatever I hit must have been slightly inside of the line. I did not dare explore much in that area because of the low tide situation. It certainly is conceivable that although I felt I was on the line or outside of it, that I might have been inside, but in no case could this have been more than 50 yards at the most. Further conversation with local people indicates that there are some rocks not shown on the chart but that they are just in shore of the line between the buoys. If you ever find anything I would be most interested to hear of it.

Thanks for the attention you have given to this case.

Sincerely yours,

S/ C.F. Adams

FE 4 (1960)

3

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Ship G I L B E R T
P.O. Box 727, Woods Hole, Mass.

15 August 1960

TO: The Director,
Coast and Geodetic Survey,
U.S. Department of Commerce,
Washington 25, D. C.

VIA: Boston District Officer, C&GS

SUBJECT: INVESTIGATION OF REPORTED SUBMERGED OBJECT, NANTUCKET SOUND OFF
WEST CHOP, MARTHA'S VINEYARD ISLAND, MASSACHUSETTS.

- REFERENCE: (1) Request for Investigation, Mr. Chas. F. Adams, Waltham, Mass.,
dated 21 July 1960.
(2) Cmdr 1st C.G. Dist. ltrs o, H3 & o, H3-1, dated 26 July 1960.
(3) B.D.O. 1st End. to ref. (2) ltr o, H3, dated 27 July 1960.

All referenced correspondence is returned, herewith included, as
a pertinent part of this report.

Subject investigation was made on 3 August 1960, using LAUNCH CS-
1176, attached to the Ship GILBERT. All soundings were recorded with Type 808
fathometer No. 159-SPX, and sounding lines were controlled by three point sex-
tant fixes on natural objects.

A copy of Chart No. 347 was used as a boat sheet. Following is a
list of the natural objects used for fixes

<u>Chart Name</u>	<u>Object</u>	<u>Latitude</u>	<u>Longitude</u>
EAST CHOP LIGHT	HOP	41° 28.21	70° 34.08
RADIO MAST	BIL	41° 27.75	70° 34.71
STANDPIPE	PIP	41° 26.38	70° 34.87
BREAKWATER LIGHT	ATE	41° 27.45	70° 35.82
WEST CHOP LIGHT	WES	41° 28.85	70° 36.02

Fixes were taken on Buoy No. 25 and Buoy No. 4 which proved them
to be in proper position. A system of close-spaced sounding lines was run over
the area of the obstruction as reported, and shoreward to the area of charted
rocks, the positions of which were verified.

After the sounding lines were run, the party spent considerable
time searching the area visually, for any obstructions. A calm sea and a bright
day resulted in objects being visible to a depth of about 8 feet. No indication
of rocks or other obstruction was found outside the charted rocks.

During the investigation it was noted that the Woods Hole - Vine-
yard Haven ferry ISLANDER cut inside bell buoy No. 2 and followed a course just
outside the line joining buoys Nos. 25 and 4. This appears to be her regular
route, which would rule out any obstruction that far off shore.

The fathograms were scanned for any indications of obstructions but the soundings are not shown on the chart, to prevent obliterating the line scheme.

Tide reducers were not applied, as no tide gage was operating in the area. However, predicted tides are available for West Chop and should give quite accurate reducers if desired, as there were no storms during this period to cause an abnormal tide.

It is considered that this investigation conclusively proves the area in question to be free of obstructions.

In addition to the referenced correspondence, applicable data forwarded herewith is as follows:

1. Chart No. 347 showing plot of sounding lines run.
2. One volume, Form 275, Soundings.
3. One fathogram.

Kenneth A. MacDonald.
Kenneth A. MacDonald,
Lieutenant, C. & G. S.,
Commanding Ship GILBERT

ENC. (4)

Ship GILBERT
P.O. Box 727, Woods Hole, Mass.

15 August 1960

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Fixes were taken on Buoy No. 25 and Buoy No. 4 which proved them to be in proper position. A system of close-spaced sounding lines was run over the area of the obstruction as reported, and shoreward to the area of charted rocks, the positions of which were verified.

After the sounding lines were run, the party spent considerable time searching the area visually, for any obstructions. A calm sea and a bright day resulted in objects being visible to a depth of about 3 feet. No indication of rocks or other obstruction was found outside the charted rocks.

During the investigation it was noted that the Woods Hole - Vineyard Haven ferry ISLANDER cut inside bell buoy No. 2 and followed a course just outside the line joining buoys Nos. 25 and 4. This appears to be her regular route, which would rule out any obstruction that far off shore.

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3. One fathogram.

Kenneth A. MacDonald,
Lieutenant, C. & G. S.,
Commanding Ship GILBERT

ENC. (4)

16 September 1960

To: Commanding Officer
USCGC WAINWRIGHT & HILGARD
General Delivery
Galilee, Point Judith, R. I.

Subject: INSTRUCTIONS -- SPECIAL PROJECT 11-60
WIRE DRAG, WEST CHOP, VINEYARD SOUND, MASS.

1. An uncharted submerged obstruction has been reported in Vineyard Sound, Massachusetts. The reported position is off West Chop, on a line between buoys "C25" and "N4," approximately 300 yards toward buoy "C25" from buoy "N4." The object was struck at about 1300 on Saturday, 16 July, by a cutter drawing 7' 4". A copy of the report, and other correspondence, will be furnished.
2. The Ship GILBERT'S launch ran closely-spaced hydrography over the area with negative results. The buoys were found to be on station by the Coast Guard and the Ship GILBERT.
3. At some convenient time before departure from your present working grounds, the area shall be dragged to an effective depth of 10 feet. The dragged area shall extend as far inshore as you consider practicable, and offshore to a line 200 yards offshore from the line between the two buoys. The area to be dragged shall extend from buoy "N4" for approximately 1,000 yards toward buoy "C25."
4. A tide staff shall be established at West Chop and read at half-hour intervals during dragging. The staff shall be connected by spirit levels to at least two tidal bench marks which give a satisfactory check. Tidal bench-mark data for West Chop will be furnished.
5. Hydrographic records and an investigation report by Ship GILBERT will be furnished. These shall be returned with your records.
6. Copies of chart 347 shall be used for boat sheets.

Commanding Officer
USCGC WAINWRIGHT & HILGARD
16 September 1960

7. Dangers to navigation shall be reported in accordance with Reference 8522, Hydrographic Manual.
8. Field records, and a brief report, shall be submitted as soon as practicable. Processing records for this special project shall take priority over your other hydrographic records.
9. If it appears advisable to amend these instructions, please submit recommendations.
10. Costs incurred in execution of these instructions shall be charged to Code 20200.
11. Please acknowledge receipt of these instructions.

Charles Price
FOR

H. Arnold Karo
Rear Admiral, C&GS
Director

BOSTON DISTRICT OFFICE
CUSTOM HOUSE, BOSTON, MASS.

19 September 1960

Mr. Charles F. Adams
190 Willow Street
Waltham 54, Mass.

Dear Mr. Adams:

Thank you for your letter of 14 September.

Washington has been requested to examine the area where you struck with a wire drag. In the wire drag operation, a wire is suspended horizontally at the desired depth below the surface with a system of buoys and upright cables. The horizontal wire is towed, along with all supports, with a towing vessel at each end. With this method, all obstructions in an area can be found. Washington has advised me over the telephone that the job is planned for the next few weeks.

The commanding officer of the wire drag vessels in the vicinity advises that when orders for the project are received from Washington, he will place a drag as close to the shore line as he considers safe. He should be able to get somewhat inside the line between buoys.

The additional information you submitted is appreciated.

Very truly yours,

G. L. Short
CDR., C&GS
District Officer

GLS:es
CC: C.O. WAHI ✓

BOSTON DISTRICT OFFICE
CUSTOM HOUSE, BOSTON, MASS.

22 August 1960

Mr. Charles F. Adams
190 Willow Street
Waltham 54, Mass.

Dear Mr. Adams:

This office received information from the First Coast Guard District concerning the "submerged object" you struck at about 1300 on Saturday, 16 July.

One of our survey launches, using a depth recorder, made a systematic search of the area on 9 August. A total of 16.2 miles of closely-spaced sounding lines in the vicinity disclosed nothing which is not charted. In addition, a considerable amount of time was spent in a visual search for an obstruction. The sea was calm and the day bright at the time.

It would be appreciated if you would call me by telephone at HANCOCK 6-1481. I would like additional details on the location of this object.

Very truly yours,

Mr. Adams advised over phone day was clear, that he was not inside line between buoys as one ahead was on stb. bow and one astern was on stb. quarter, he bumped solidly and went over a definite rock. Local boat yard advised him that others have hit rocks in same area.

G. L. Short
CDR., C&GS
District Officer

CC: Coast Guard, A to N
Army Engr., Prov., RI
Director, C&GS

Will look in same area with his depth finder turned on and get a fix if he spots it again. Was CO of DE in WW 2 and seems to know what he is talking about.

BHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coast & Survey~~

14 June 1961

Division of Charts: R. H. Carstens

Plane of reference approved in
5 volumes of sounding records for

HYDROGRAPHIC SHEET FE NO 4 1960

Locality West Chop, Vineyard Sound, Mass.

Chief of Party: D. G. Rushford (1960)
Plane of reference is mean low water, reading
0.3 ft. on tide staff at West Chop
4.6 ft. below B. M. 5 (1934)

Height of mean high water above plane of reference is: 1.4 ft.

Condition of records satisfactory except as noted below:

Burt W. Wilson
Chief, Tides and Currents Branch

~~Chief, Division of Tides and Currents~~

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. F.E.No.4, 1960 W.D.

Records accompanying survey: Smooth sheets;
 boat sheets ..2..; sounding vols. ..1..; wire drag vols. ...5..;
 Descriptive Reports ¹.....; graphic recorder envelopes ...1..;
 special reports, etc. ..1-Chart 347 showing position numbers...
 ..off West Chcp.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet		<u>WD</u> <u>Hydro</u>
Number of positions checked		91..73
Number of positions revised		<u>WD</u> 50..12
Number of soundings revised (refers to depth only)		<u>WD</u> 15....0
Number of soundings erroneously spaced	0
Number of signals erroneously plotted or transferred	0
Topographic details	Time0
Junctions	Time0
Verification of soundings from graphic record	Time1
Special adjustments	Time

Verification by *Jan Zesland* Total time 63 Date 2/16/62
 Reviewed by *Jan Zesland* Time 8 Date 2/19/62

FIELD EXAMINATION NO. 4, 1960
Massachusetts, Vineyard Sound, Off West Chop

The field examination was made in compliance with instructions for special Project 11-60, dated 26 September 1960.

The purpose of the field examination was to locate an uncharted submerged obstruction in Vineyard Sound, Massachusetts whose reported position is off West Chop on a line between buoys "C 25" and "N 4", approximately 300 yards toward buoy "C 25" from buoy "N 4". The obstruction was struck by a cutter drawing 7'4" when the weather was clear and the sea was relatively flat.

The results of the examination are shown on the accompanying two sections of chart 347 and the area and depth diagram on tracing cloth. The obstructions are also listed on page 1 of the Descriptive Report. Wire drags set to effective depths of 7-12 ft. and a system of closely spaced sounding lines failed to reveal the existence of the reported obstruction. However, about 27 meters to the westward of the reported location of the obstruction a wire drag set to an effective depth of 9 ft. hung an obstruction. A 7-ft. sounding was obtained at this hang. This is probably the obstruction struck by the cutter.

The work was partially applied to Chart 347 dated 19 June 1961. A comparison between the field examination and Chart 347 shows the wire-drag effective depths and soundings to be in harmony with the charted depths, except as follows:

The location of the 7-ft. sounding charted in lat. $41^{\circ}28.77'$, long. $70^{\circ}35.61'$, was moved during verification and review of the wire-drag survey 15 meters to the northward.

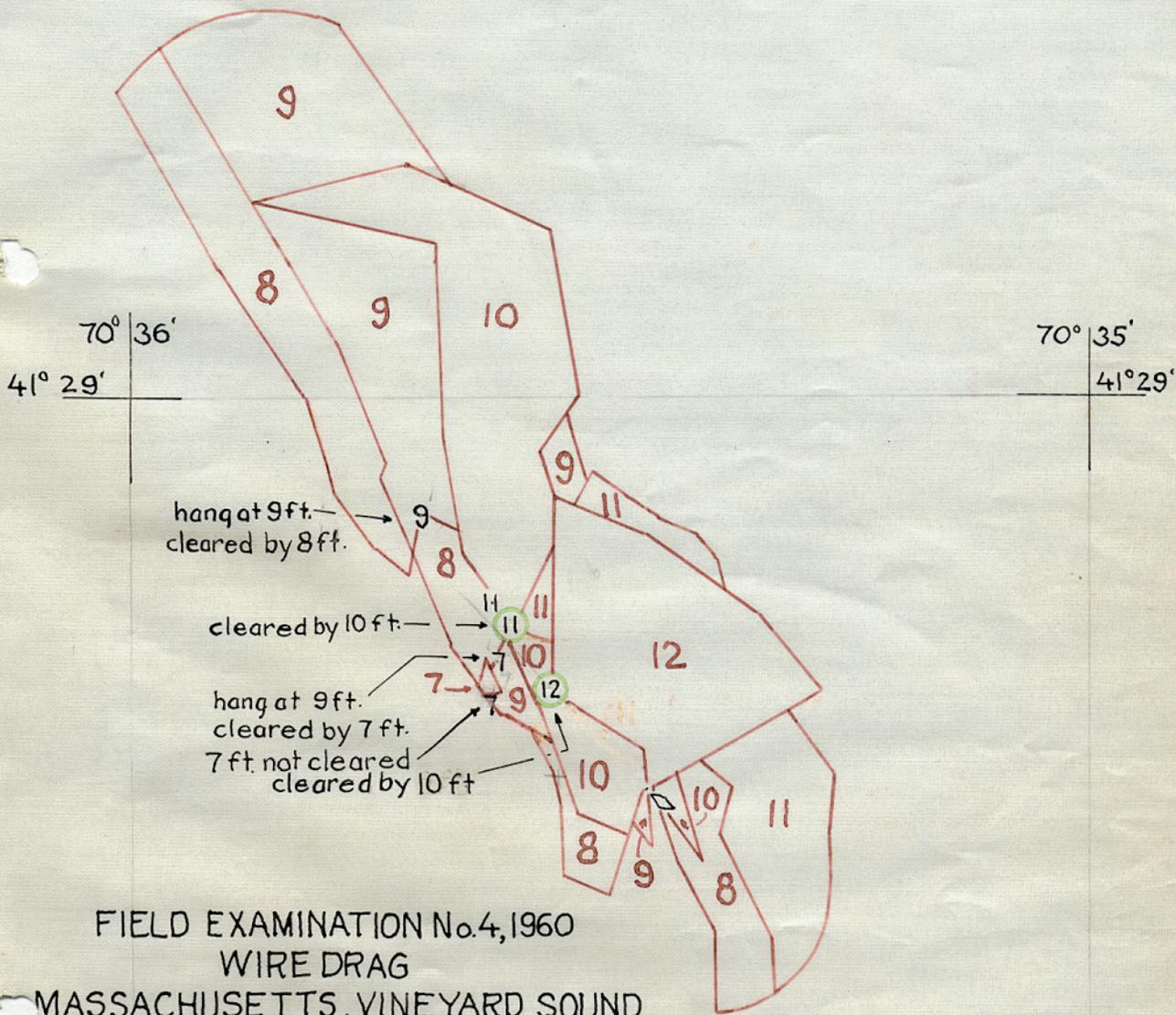
Attention is directed to the fact that the records for the wire drag portion of the field examination generally lacked sufficient information to accurately plot the locations of the hangs and soundings over them. In these cases, the soundings or hangs were plotted in their most probable positions. For these reasons and also because of additional plotting errors, it was necessary to make a number of revisions to the boat sheet.

The Descriptive Report covers all matters pertaining to this examination. No further discussion is considered necessary.

Reviewed by - I. M. Zeskind

2/19/62

Inspected by - R. H. Carstens



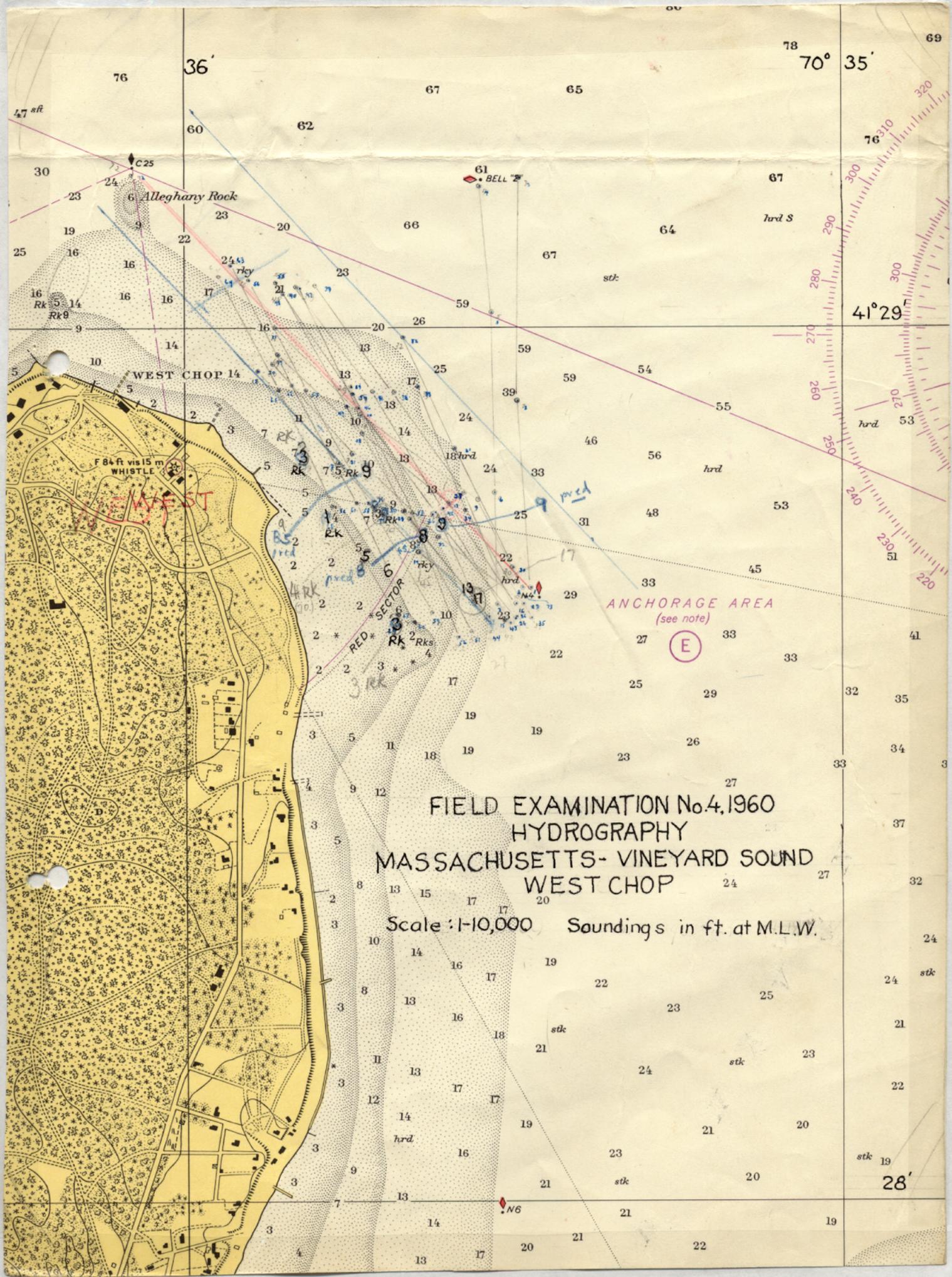
FIELD EXAMINATION No.4, 1960

WIRE DRAG

MASSACHUSETTS, VINEYARD SOUND

WEST CHOP

Scale: 1-10,000 Soundings and effective
drag depths in feet at M.L.W.



78 70° 35' 69

76 36'

67 65

41° 29'

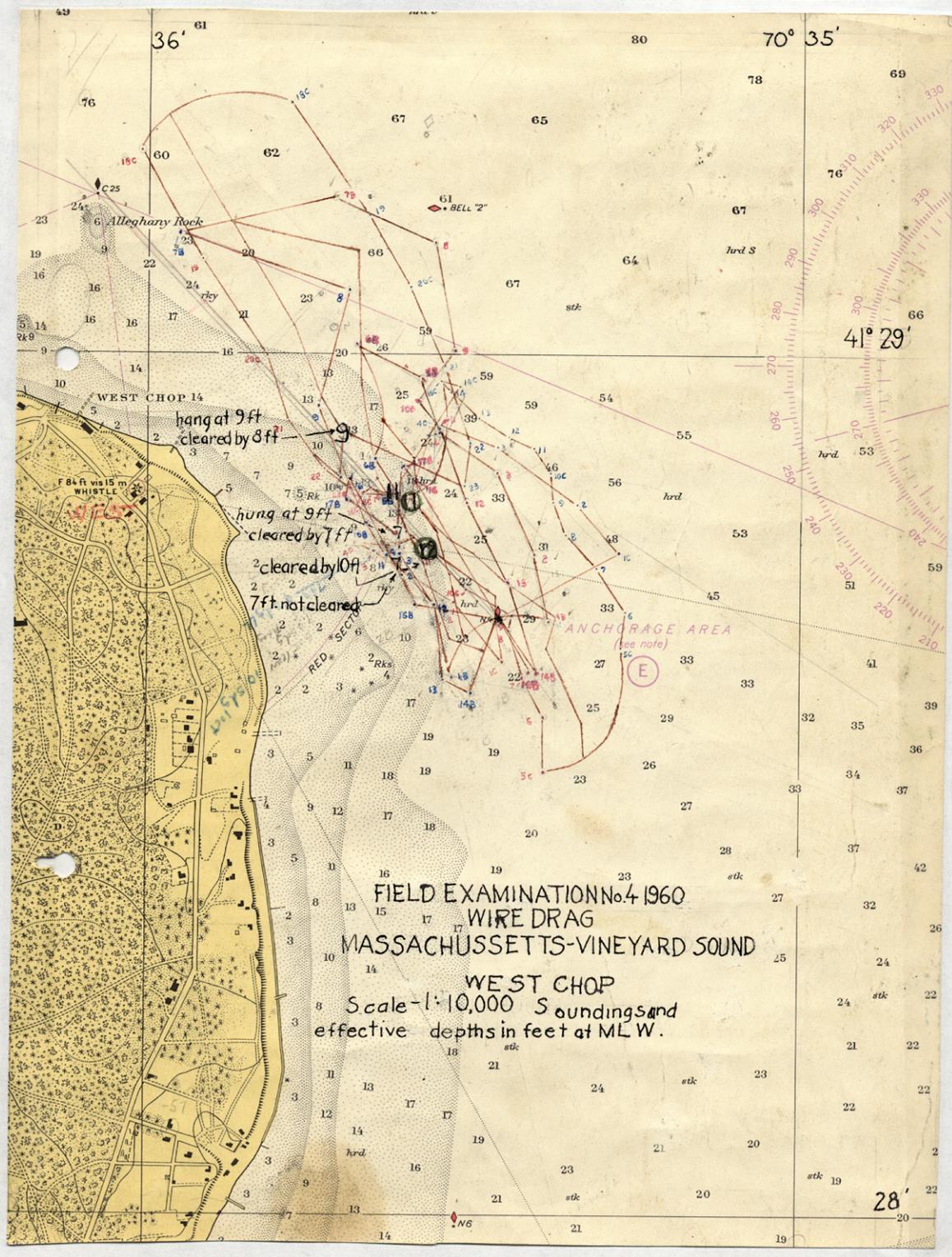
FIELD EXAMINATION No.4, 1960
HYDROGRAPHY
MASSACHUSETTS- VINEYARD SOUND
WEST CHOP

Scale: 1:10,000 Soundings in ft. at M.L.W.

ANCHORAGE AREA
(see note)

(E)

28'



FIELD EXAMINATION No. 4 1960
 WIRE DRAG
 MASSACHUSETTS-VINEYARD SOUND
 WEST CHOP
 Scale - 1:10,000 Soundings and
 effective depths in feet at MLW.

hang at 9 ft
 cleared by 8 ft

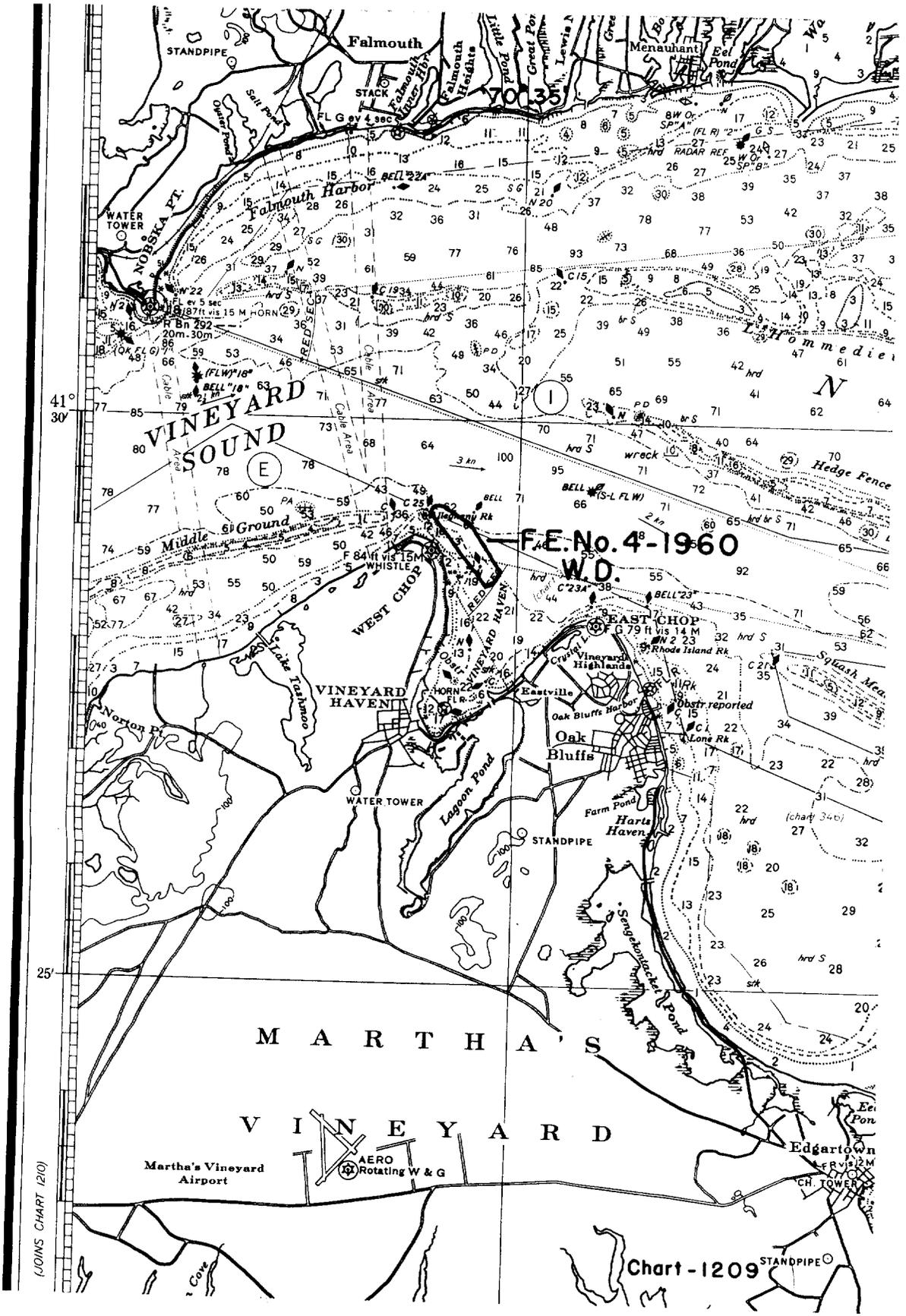
hang at 9 ft
 cleared by 7 ft

2 cleared by 10 ft

7 ft not cleared

ANCHORAGE AREA
 (see note)
 E

28'



Cht. 249 - Applied thru L-935 (1960) before ver & review