

REGISTER NO. 5

SUPPLEMENT
to
THE HARBOR DEFENSE PROJECT
HARBOR DEFENSES
of
NARRAGANSETT BAY

1. This is a REGISTERED DOCUMENT and consists of 8 Annexes and 6 Appendices.
2. The SHORT TITLE of this document is HDNARB-AN-45.
The SHORT TITLE of the Appendices is HDNARB-AP-45.
3. This document will be accounted for on 30 June and 31 December of each year to Hq., Harbor Defenses of Narragansett Bay, Fort Adams, Rhode Island.
4. Prompt Report will be submitted when this document is transferred from one person to another.
5. This document supersedes the document with the Short Title as follows: CCA-AN-NARB-38.

*Note:
The Basic Project
See CCA-P-NYNB
Part V - Appendix II*

Revised 1 February 1945

Annex A - ARMAMENT

- Exhibit 1-A Tactical Organization
- Exhibit 2-A Current Tactical Organization
- Exhibit 3-A Location of Army Controlled Land
- Exhibit 4-A Location of Elements
- Exhibit 5-A Fields of Fire, Batteries 8" and larger
- Exhibit 6-A Fields of Fire, less than 8", except AMTB Batteries
- Exhibit 7-A Fields of Fire, AMTB Batteries

Annex B - FIRE CONTROL

- Exhibit 1-B Local Plane Coordinate System Grid
- Exhibit 2-B Radio Net
- Exhibit 3-B Datum Points
- Exhibit 4-B Radar Except AA
- Exhibit 5-B Field of Fire by Battery
- Exhibit 6-B Circuit Diagram
- Exhibit 7-B Cable Routings
- Exhibit 8-B Schematic Cable Diagram
- Exhibit 9-B Fire Control Installations

Annex C - SEACOAST SEARCHLIGHTS

- Exhibit 1-C Illumination Plan

Annex D - UNDERWATER DEFENSE

- Exhibit 1-D Underwater Defense
- Exhibit 2-D Shore Facilities

Annex E - ANTI-AIRCRAFT ARTILLERY (Harbor Defense)

- Exhibit 1-E A A Tactical Organization
- Exhibit 2-E AA Fields of Fire and Illumination
- Exhibit 3-E AAIS
- Exhibit 4-E AA Fire Control Telephone Net
- Exhibit 5-E AA Radio Net
- Exhibit 6-E Automatic Weapons Defense 40mm Guns

Annex F - GAS DEFENSE

- No Exhibits

Annex G - EQUIPMENT

Exhibit 1-G Consolidated Summary Harbor Defense Elements

Exhibit 2-G Consolidated Summary of Battery Installations

Exhibit 3-G Consolidated Summary of Major Items of Equipment

Annex H - REAL ESTATE REQUIREMENTS

No Exhibits

LIST OF LOCATIONS

HARBOR DEFENSES

of

NARRAGANSETT BAY

LOCATION NUMBER

LOCATION NAME

27	Watch Hill Point
28	Watch Hill
29	Noyes Point
30	Ninigret
31	Charlestown
32	Green Hill
32A	Green Hill Beach
33	Fort Greene South
34	Fort Greene East & West
34A	Gunning Rock
35	Fort Varnum
36	The Bonnet
36A	Lockout Tower
37	Fort Kearney
37A	Saunderstown Military Reservation
38	Fort Greble
39	Fort Getty
40	Prospect Hill
41	Fort Burnside
42	Hull Cove
43	Fort Wetherill
43A	The Quarry
44	Fort Adams
44A	Naval Training Station
45	Castle Hill

LOCATION NUMBERLOCATION NAME

45A	Brenton Point
45B	Coggeshall Ledge
45C	Easton Point
45D	Sachuest Golf Course
45E	Fire Tower
46	Sachuest Point
46A	Stone Bridge
47	Fort Church North
47A	Fort Church East
48	Fort Church South
49	Warren Point
50	Gooseberry Neck
57	Cuttyhunk
59	Gay Head
59A	Peaked Hill
60	Block Island

A N N E X A

INDEX

SECTION I - GENERAL

- Par. 1 Reference to Basic Project
- Par. 2 Purpose of Supplement
- Par. 3 Mission of Harbor Defense
- Par. 4 Tactical Organization

SECTION II - SEACOAST ARTILLERY

- Par. 5 Armament
 - a. Retained Project Batteries of the Modernization Program
 - b. Batteries Authorized for Exclusion from Basic Project
- Par. 6 War Reserve and Battle Allowances of Ammunition

SECTION III - MISCELLANEOUS

- Par. 7 Defense against Motor Torpedo Boats
- Par. 8 Protective Concealment
- Par. 9 Government-Owned and Leased Land
- Par. 10 Land Acquisition

EXHIBITS

- 1-A Tactical Organization
- 2-A Current Tactical Organization
- 3-A Location of Army Controlled Land
- 4-A Locations of Elements
- 5-A Fields of Fire, Batteries 8" and larger
- 6-A Fields of Fire, Batteries less than 8", except AMTB Batteries
- 7-A Fields of Fire, AMTB Batteries

1. BASIC PROJECT

The Basic Project, together with modifying actions, is cited in paragraph 1 under "Authorities".

2. PURPOSE OF SUPPLEMENT

This supplement amplifies the Basic Project as set forth in the above references and is intended to furnish a concise record of the status both of existing Harbor Defense fortifications, construction and equipment and of any new or modified construction which has been approved by the War Department for future accomplishment. It is intended to provide a basis for advance procurement of funds and materials necessary for completion of basic project. It is also intended to make available, to those concerned, information of a technical and tactical nature not otherwise easily accessible in usable form.

3. MISSION OF HARBOR DEFENSES

To cover the center of the Newport Subsector; in conjunction with the Harbor Defenses of New Bedford and Harbor Defenses of Long Island Sound to insure use of waterways between Long Island Sound and Buzzard's Bay secure from enemy naval gun fire and cover the debouchment by our fleet into the Atlantic Ocean, and to support the defense against landing attack in the Subsector.

To protect harbor facilities and friendly vessels in Narragansett Bay against enemy naval gun fire.

To deny entrance to Narragansett Bay by enemy vessels.

To support the defense against land attacks.

4. TACTICAL ORGANIZATION

a. The tactical organization upon completion of the basic project will be as shown by Exhibit No. 1-A. All command channels originate at the HDCP under the command of the Harbor Defense Commander.

Group I on the right flank is composed of a long range battalion of two batteries of 16" Guns and a separate battery of modern 6" guns.

Group II includes the mine battalion, the 90mm AMTB Battalion, and a six-inch gun battalion. The mine battalion consists of the mine fields for both the East and West Passage and two batteries of 3" seacoast guns. The 90mm battalion is composed of three batteries each having two fixed and two mobile guns and two 37mm guns. The six-inch gun battalion consists of one battery of modern 6" guns and two batteries of medium range 6" guns. This group covers the central water area including both the East and West entrances to Narragansett Bay.

Group III on the left flank consists of one battery of 16" guns and a battalion consisting of one battery of long range 8" guns and a modern battery of 6" guns.

Group II covers the inner entrances of both passages and affords good all around observation to the battalion commanders for control of their respective battalions. Groups I and III comprising the long range armament covers the outer water areas and also affords good observation of the respective water areas.

Battalion VI (Antiaircraft Battalion) is located in the HDCP and may operate directly under the control of the Harbor Defense Commander or under the Command of the Higher Echelon of the Antiaircraft Command.

b. (1) Constant liaison for mutual exchange of intelligence is accomplished in this Harbor Defense through watch officers of the Army and Navy on continuous duty at the Harbor Entrance Control Post at Fort Burnside. Direct contact by means of a liaison officer is maintained with the Commander, Narragansett Group, Eastern Sea Frontier, who has under his command the Naval air and sea patrols for the Narragansett Bay area. Agreements for patrolling the shore line have been negotiated with the Navy through the Commanding General, Northeastern Sector.

(2) Cooperative arrangements with the Air Corps are a function of higher command echelons.

c. All project batteries of this Harbor Defense are completed or in a deferred status. Following is a priority list of armament in order of tactical importance.

1. Btry Gray
2. Btry Cons. #213
3. Btry Hamilton
4. Btry Reilly
5. Btry Cons. #211
6. Btry Cons. #212
7. Btry Dickenson
8. Btry House
9. Btry Whiting
10. Btry Crittenden
11. Btry Cons. #109

SECTION II
SEACOAST ARTILLERY

a.

RETAINED PROJECT BATTERIES OF THE MODERNIZATION PROGRAM								
TAC NO.	LOC NO.	NAME OR CONST. NO.	LOCATION	NO. & CAL OF GUNS	MODEL		COMPLETION DATE	EXHIBIT NO. OF FIELD OF FIRE
					GUNS	MOUNT		
1	34	109	Ft. Greene	2-16"	Mk III M I	M IV	Compl.* (Deferred)	6-B-1
2	34	Hamilton	Ft. Greene	2-16"	No 1 Gun MkIII M I No 2 Gun MkII M I	M IV	Compl.	6-B-2
3	33	211	Ft. Greene South	2-6"	1903A2	M I	Compl.	6-B-3
4	35	House	Ft. Varnum	2-6"	1900	BC 1900	Compl.	6-B-4
5	41	Whiting	Ft. Burn- side	2-3"	1903	BC 1903	Compl.	6-B-5
6	41	213	Ft. Burn- side	2-6"	1905A2	M I	Compl.	6-B-6
7	43	Dickenson	Ft. Wether- ill	2-6"	1900	BC 1900	Compl.	6-B-7
8	43	Critten- den	Ft. Wether- ill	2-3"	1903	BC 1903	Compl.	6-B-8
9	47	Gray	Ft. Church	2-16"	Mk II M I	M III	Compl.	6-B-9
10	47A	Reilly	Ft. Church	2-8"	Mk VI M3A2	M I	Compl.	6-B-10
11	48	212	Ft. Church South	2-6"	1903A2	M I	Compl.	6-B-11
* Suspension of construction and installation of Btry Cons. #109 was directed by Memorandum, War Department General Staff, WDGDS 8074, subject: "Curtailement of Seacoast Battery Program", dated 20 November 1943.								

b.

BATTERIES AUTHORIZED FOR EXCLUSION FROM THE BASIC PROJECT

LOC NO.	NAME	LOCATION	NO & CAL OF GUNS	MODEL		STATUS OF MAGAZINES & EMPLOYMENT	REF NO.	PG. NO.
				GUNS	MOUNT			
-	Railway *	Narra Pier	2-8"	Navy	Ry	None	1	8
35	Armistead	Ft Varnum	2-3"	Armament Removed		Usable	1,5	8
37	Cram	Ft Kearney	2-6"	"	"	Usable	1,6	8
38	Sedgewick	Ft Greble	4-12" M	"	"	Usable	4	8
38	Hale	Ft Greble	3-10"	"	"	Not Usable	4	8
39	Toussard	Ft Getty	3-12"	"	"	Usable	2	8
43	Walbach	Ft Wether- ill	2-10"	"	"	Usable	2	8
43	Varnum	Ft Wether- ill	2-12"	"	"	Usable	1,7	8
43	Wheaton	Ft Wether- ill	2-12"	M1900	DC	Usable	1	8
44	Gilmore	Ft Adams	4-12" M	Armament Removed		Usable	1,3	8
44	Edgerton	Ft Adams	4-12" M	"	"	Usable	1,3	8

* 8" Railway Btry was not installed.

REF. NO.	WAR DEPARTMENT AUTHORIZATION
1	Letter Adjutant General Office dated September 25, 1940, Subject: "Modernization of Harbor Defense Projects (Continental United States)" file AG (9-11-40)M-WPD-M to Commanding General, First Corps Area, authorizes elimination of batteries on completion of modernization program.
2	Letter Harbor Defenses of Narragansett Bay, Ft. Adams, R.I. dated September 7, 1942, Subject: "Recommendation for Certain Ordnance Property to be Declared Surplus", Approved by War Department Memo to Chief of Ordnance, file SPDDO 400.73 SPAG 475.8 (9-7-42) Serial No. 8896, provides for salvage of guns and carriages of Battery Toussard and the carriages of Battery Walbach.
3	Letter Hq Harbor Defenses of Narragansett Bay, Ft. Adams, R.I. dated October 27, 1942, Subject: "Recommendations for Certain Ordnance Property to be Declared Surplus". Approved by the Secretary of War in 3rd Indorsement dated December 2, 1942, file AG 400.72 (10-27-42) OB-S-SPDDO, authorizes the salvage of guns and carriages of Batteries Gilmore and Edgerton.
4	Letter Hq. New England Sector dated September 27, 1942, Subject: "Salvage of Obsolete or Damaged Equipment". Approved by War Department in memo to Chief of Ordnance dated November 4, 1942, also letter Eastern Defense Command, CA 662-(2) dated November 12, 1942, authorizes the salvage of guns and carriages of Batteries Sedgewick and Hale.
5	Btry Armistead-Letter Hq HD of Narragansett Bay, December 11, 1942, Subject: "Resiting of Btry Armistead". Disapproved by 7th Indorsement by the Secretary of War, dated February 25, 1943, file AG 660.2 (12-11-42) OB-S-E, authorizes the storage of the guns and carriages of Btry Armistead.
6	Letter, Adjutant General's Office dated May 25, 1943, Subject: "Seacoast Guns, 6" M1903-05", file AG 472.3(5-10-43)OB-S-E. Approved in 2nd Indorsement by Secretary of War, June 7, 1943, authorizes the salvage of the guns and carriages of Battery Cram.
7	Letter Hq. HD of Narragansett Bay, dated April 22, 1943, Subject: "Salvage Battery Varnum, Fort Wetherill". Approved by 3rd Indorsement by the Secretary of War, dated May 27, 1943, file AG 400.7(5-26-43)OB-S-SPDDO authorizes the salvage of guns and carriages of Battery Varnum.

AMMUNITION ALLOWANCE PER BATTERY					
BATTERY OR CONSTRUCTION NO.	NO. OF GUNS	CALIBER AND TYPE	TYPE PROJ.	WAR RESERVE	BATTLE ALLOWANCE
Cons. No. 109	2	16" LR	2240# AP	300	200
Hamilton	2	16" BC	2240# AP	300	200
Btry No. 211 -	2	6" LR	90# HE 105# AP	300 400	200 300
House	2	6" SR	90# HE 108# AP	300 900	200 600
Whiting	2	3" BC	12.8# HE	600	400
Btry No. 213	2	6" LR	90# HE 105# AP	300 400	200 300
Dickenson	2	6" SR	90# HE 108# AP	300 900	200 600
Crittenden	2	3" BC	12.8# HE	600	400
Gray	2	16" BC	2240# AP	300	200
Reilly	2	6" LR	240# HE 260# AP	150 450	100 300
Btry 212	2	6" LR	90# HE 105# AP	300 400	200 600
<u>AUTHORITY:</u> Letter, AGO, dated 11 February 1944, subject, "War Reserve Ammunition, Seacoast Artillery", file AG 471(28 Jan 44) OH-S-D AMTB AMMUNITION ALLOWANCE: AMTB 1, 2, and 3. 1. Current ammunition allowances for AMTB Weapons is authorized by letter, HQ, EDC, file ORD 471/711 subject: "Combat Levels of Ammunition for Ground Units of the Eastern Defense Command in the Continental United States," dated 10 August 1944. 2. Ammunition storage facilities for each of the AMTB Batteries is as follows: a. Ammunition for AMTB #1 is suitably stored in special underground magazines at Ft. Varnum. Under the provisions of Par. 116 b (1) and (2) TM 9-1900 dated 3 July 1942, this storage complies with all quantity distance requirements. b. Ammunition for AMTB #2 is suitably stored in the Magazines of old Btry House at Ft. Getty. Under the provisions of Par. 116 b (1) and (2) TM 9-1900 dated 3 July 1942, this storage complies with all quantity distance requirements. c. Ammunition for AMTB #3 is suitably stored in the magazines of Btry Varnum at Ft. Wetherill. All provisions of TM 9-1900 are complied with.					

PAR. 7

AMTB BATTERIES										
TACTICAL NO.	LOC NO.	SITE NO.	NAME OR CONST. NO.	NO. OF GUNS	CAL OF GUN	TYPE OF MOUNT	COMPLETION DATE	MISSION		EXHIBITS
								PRI	SEC	
AMTB #1	35	1G	921	2	90MM	M3	Exist'g	MTB	AA	7A
	35	1G	921	2	90MM	M1A1	Exist'g	MTB	AA	7A
	41	-	321	2	37MM	M3	Exist'g	MTB	AA	7A
AMTB #2	39	1B	922	2	90MM	M3	Exist'g	MTB	AA	7A
	39	1B	922	2	90MM	M1A1	Exist'g	MTB	AA	7A
	37	-	322	2	37MM	M3	Exist'g	MTB	AA	7A
AMTB #3	43	1G	923	2	90MM	M3	Exist'g	MTB	AA	7A
	43	1G	923	2	90MM	M1A1	Exist'g	MTB	AA	7A
	45A	-	323	2	37MM	M3	Exist'g	MTB	AA	7A
	46A	-	324	2	37MM	M3	Exist'g	MTB	AA	7A
5	41	1D	Whiting	2	3"	BC	Exist'g	Aux Ves.	MTB	6A
8	43	1C	Crittenden	2	3"	BC	Exist'g	Aux Ves.	MTB	6A
* AA 1	44	-	AA 1	3	3"	Fixed	-	AA	MTB	2E
AA 2	44	1C	AA 1	3	3"	Fixed	Exist'g	AA	MTB	2E
* AA 1 in storage at location 44 pursuant to 8th Indorsement, WD AGO, file AG 660.2 (23 Feb 44) OB-S-E, 10 April 1944, on letter, Hq, Harbor Defense of Narra. Bay, file 600.1, 23 February, 1944, subject: "Request for Construction". <u>AUTHORITY:</u> Letter, AGO, dated April 17, 1943, subject: "Defense Harbors Against Motor Torpedo Boats", file AG 660.2 (4-12-43) OB-S-SPDDO-M (1 Inclosure).										

FORM # 4

8. PROTECTIVE CONCEALMENT:

Authority for protective concealment work within the Harbor Defense is set forth in the references listed below. A description of the project and of the elements covered follows the list of authorities.

a. Authorities.

(1) Circular letter No. 1086, Dispersion, Concealment, and Camouflage of All Camps and Stations. File No. CE 467 COF, January 17, 1942.

(2) War Department Directive. Passive Protection Measures. File No. AG 381 (2-25-42) OB-S-SPAAC-M. March 5, 1943.

(3) Supplemental Letter to (2) (same title). File No. AG 381 (4-2-43) OB-S-SPAAC-M.

b. Description and elements covered.

(1) The plan for protective concealment of the Harbor Defenses of Narragansett Bay has been a development of the emergency camouflage project set up by this command, based on the recommendations of a survey conducted under the Chief of Engineers. Most of the work specified has been accomplished. In general, the camouflage plan approved by these authorities consists of treating the fixed seacoast installations in the Harbor Defenses with approved protective concealment measures so that identity would be concealed from aerial observation or so blended into the adjacent terrain that true significance would not be apparent. Tone-down painting, garnished nets, and various types of camouflage deception have been utilized in accomplishing these objectives, depending on the nature of each position and its surroundings.

(2) Outdated and even abandoned batteries cannot be omitted from treatment in this project, in a majority of cases, because of their close proximity to new armament positions. It is vital that camouflage of seacoast artillery not be limited to new installations and modern armament, according to the present understanding of this subject, unless older elements are considerably removed from modern ones. The probability that enemy intelligence has complete files on the location and nature of previously constructed positions does not obviate the need for reasonably effective camouflage in such cases. Failure to quickly recognize and identify the target may defeat the bombing mission.

(3) The general policy of the Corps of Engineers for this type of armament is that camouflage be effective at altitudes greater than 20,000 feet and lateral distances in excess of $4\frac{1}{2}$ miles. However, nearly all the installations are reasonably effective at one-half these distances. Furthermore, installations visible from the sea are being camouflaged from lateral detection. Automatic weapons and mobile armament are camouflaged to avoid detection by direct observation below 5,000 feet.

(4) It is not feasible to attempt concealment of seacoast defenses against indirect observation and detection on aerial photographs. The size and permanence of the positions, most of which long antedate the present war, preclude such an objective. The first objective is concealment from identification at high elevations, the normal operating altitude of bombardment aircraft. Color value in camouflage has been considered less important than securing adequate tone-down and texture qualities. Color is not a significant factor in direct observation or in photography at elevations greater than 10,000 feet.

(5) The camouflage of new installations is treated as an integral part of construction and is planned and executed under the direction of the Chief of Engineers. Maintenance and improvement of these installations is accomplished by the using troops as each new project comes under Harbor Defense control.

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(6) Existing installations have been camouflaged by troop labor and camouflage maintenance is a responsibility of the using troops. All protective concealment construction which has been or will be accomplished under War Department authorization will be maintained by using troops to assure effectiveness.

GOVERNMENT OWNED AND LEASED LAND							
LOC NO.	SITE NO.	NAME	ACRES	ACQUIRED	PURPOSE	REF NO.	PAGE NO.
27	1	Watch Hill Pt	4.6	5-24-43	Fire Control	1	16
29	1	Noyes Pt	0.59	1-20-42	Fire Control	2	16
30	1	Ninigret	0.21	5-29-42	Fire Control	3	16
31	1	Charlestown	0.94	4-17-42	Fire Control	4	16
32	1	Green Hill	1.18	5-11-43	Fire Control	5A	16
32A	1	Green Hill Beach	0.4	11-21-43	SCR - 296	5B	16
33	1	Ft Greene South (Pt Judith)	34.48	6-9-42	Mil. Res.	6	16
34	1	Ft Greene (West)	90.77	6-13-42	Mil. Res.	7A	16
34	2	Ft Greene(East)	144.86	1939	Mil. Res.	7B	16
35	1	Ft Varnum (Boston Neck)	33.7	9-9-42	Mil. Res.	8	16
36	1	The Bonnet	0.18	12-31-41	Fire Control	9	16
37	1	Ft Kearney	25	1901	Mil. Res.	10	16
38	1	Ft Greble	75	1864	Mil. Res.	11	16
39	1	Ft Getty	31.67	1903	Mil. Res.	12A	16
39	1	Ft Getty	8.68	12-10-40	Hospital	12B	16
39	1	Ft Getty	0.69	11-13-42	Right of Way	12C	16
40	1	Prospect Hill	17.97	1916 1921	Fire Control	13	17
41	1	Ft Burnside (Beavertail)	118.64	8-4-42	Mil. Res.	14	17
42	2 Sites	Hull Cove	1.85	12-5-42	Fire Control	15	17
43	1	Ft Wetherill	61.50	1799	Mil. Res.	16	17
44	1	Ft Adams	135.65	1799 1824	Mil. Res.	17	17
45A	1	Brenton Pt	.298	12-9-42	Searchlight	18A	17
45A	2	Brenton Pt	.26	12-9-42	SCR-296	18A	17
45A	3	Brenton Pt	4.4	12-9-41	SCR-296	18B	17
46	1	Sachuest Pt	18.9	1-19-42	Fire Control	19	17
47	1	Ft Church North	139.94	4-28-43	Mil. Res.	20	17
47A	1	Ft Church East	-	4-28-43	Mil. Res.	20	17

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GOVERNMENT OWNED AND LEASED LAND							
LOC NO.	SITE NO.	NAME	ACRES	ACQUIRED	PURPOSE	REF NO.	PAGE NO.
48	1	Ft Church South (Sakonnet Pt)	20.89	11-12-41	Gun Btry	21	17
49	1	Warren Pt.	1.47	8-24-42	Fire Control	22A	17
49	2	Warren Pt.	1.30	10-21-42	Fire Control	22B	17
50	1	Gooseberry Neck	6.50	3-10-42	Fire Control	23	17
54	1	Cuttyhunk Is.	2.65	4-28-43	Fire Control	24A	17
54	2	Cuttyhunk Is.	4.45	1-12-42	Fire Control	24B	18
54	3	Cuttyhunk Is.	2.13	4-28-43	Right of Way	24A	17
59	1	Gayhead	3.82	2-11-42	Fire Control	25A	18
59	2	Gayhead	0.10	Govt. Owned	Fire Control	25B	18
60	Base Camp	Block Island	2.0	1934	Mil. Res.	26A	18
60	1	Block Island	11.39	6-5-42	Fire Control	26B	18
60	2	Block Island	19.78	7-6-43	Fire Control	26B	18
60	3	Block Island	5.99	7-6-43	Fire Control	26B	18
60	4	Block Island	62.87	7-6-43	Fire Control	26B	18

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REF NO.	WAR DEPARTMENT AUTHORIZATION
	B. Letter CE 601.1 Subject: "Acquisition of Land, Cuttyhunk Island", Approved in 2nd Indorsement by War Department August 27, 1941. 25 GAYHEAD SITES 1 and 2. A. Letter CE 601.1 Subject: "Acquisition of Land, Gayhead", Approved in 2nd Indorsement by War Department August 15, 1942. B. Originally Government Owned. 26 BLOCK ISLAND SITES 1, 2, 3, 4, and Base Camp. A. License of July 1, 1934 from the Department of Commerce to the War Department transfers rights of land to the Army. B. Letter CE 601.53 Subject: "Acquisition of Land for Sites 1,2,3,4, and 4C on Block Island, R. I." dated 12 July 1943.

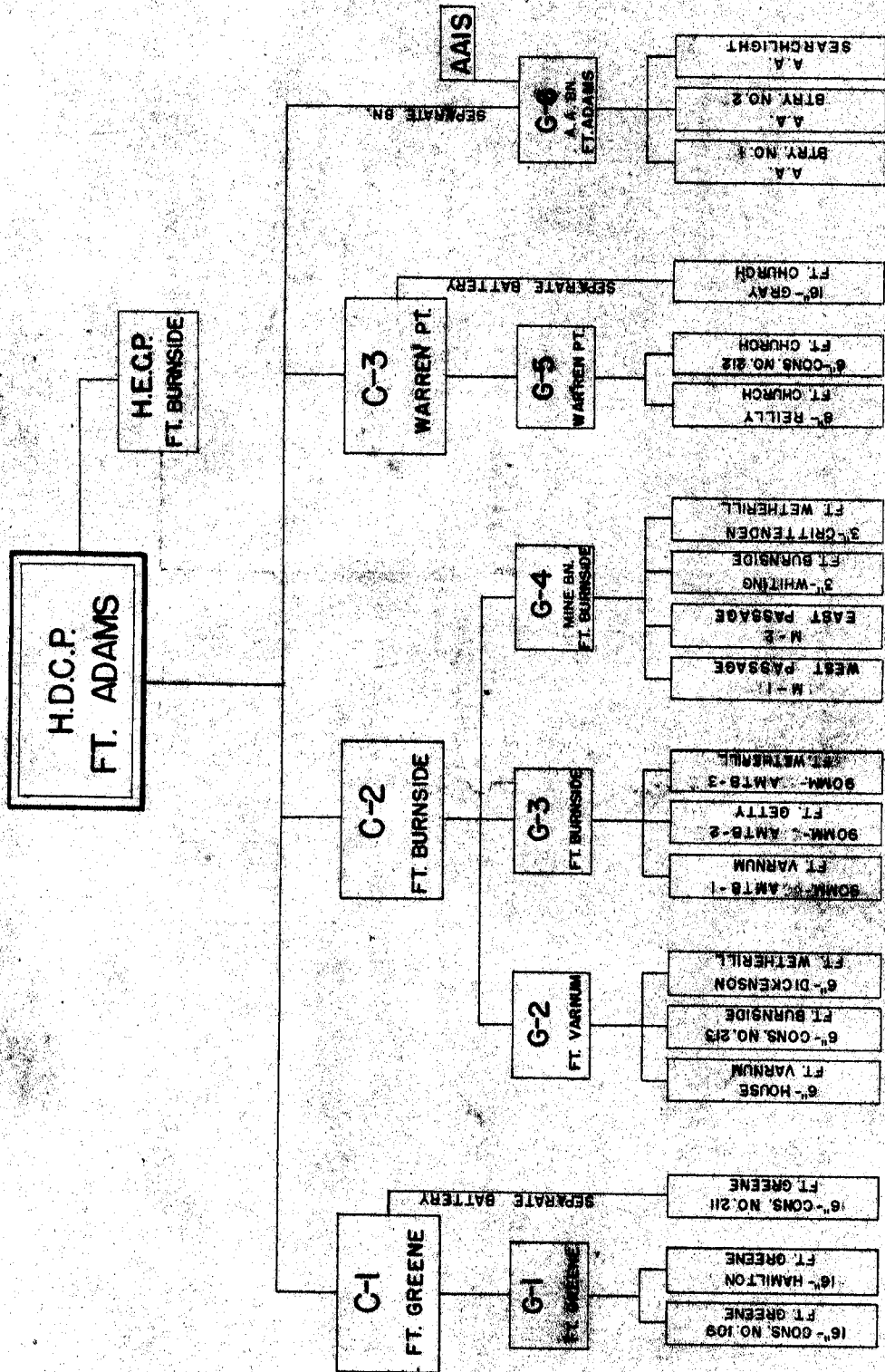
FORM # 2a

REF NO.	WAR DEPARTMENT AUTHORIZATION
1	WATCH HILL Coast Guard Owned. Letter of permit from Secretary of The Navy dated 24 May 1943.
2	NOYES POINT. Letter CE 601.1 Subject: "Acquisition of Land, Noyes Point", Approved in 2nd Indorsement by War Department, November 19, 1941.
3	NINIGRET. Letter CE 601.1 Subject: "Acquisition of Land, Ninigret", Approved in 2nd Indorsement by War Department, May 4, 1942.
4	CHARLESTOWN. Letter CE 601.1 Subject: "Acquisition of Land, Charlestown", Approved by War Department in 2nd Indorsement, January 26, 1942.
5	GREEN HILL. A. Letter CE 601.1 Subject: "Acquisition of Land, Green Hill", Approved in 2nd Indorsement by War Department, September 19, 1941. B. Letter of November 21, 1942 from Secretary of Navy to Secretary of War transfers Right of Land to Army.
6	FORT GREENE SOUTH (PT JUDITH). Letter CE 601.1 Subject: "Acquisition of Land, Point Judith", Approved, in 2nd Indorsement, by War Department, September 24, 1941.
7	FORT GREENE SITES 1 and 2 A. Letter CE 601.1 Subject, "Acquisition of Land, Fort Greene", Approved in 2nd Indorsement by War Department, September 24, 1941. B. G.O. No. 8 W.D. 1940.
8	FORT VARNUM (BOSTON NECK) Letter CE 601.1 Subject: "Acquisition of Land, Fort Varnum (BOSTON NECK)", Approved in 2nd Indorsement by War Department, February 11, 1942.
9	THE BONNET. Letter CE 601.1 Subject: "Acquisition of Land, The Bonnet", Approved in 2nd Indorsement by War Department, November 5, 1941.
10	FORT KEARNEY. G.O. No. 194 W.D. 1904.
11	FORT GREBLE. G.O. No. 59 Hq of the Army, Adjutant General's Office 1898.
12	FORT GETTY SITES 1, 2, 3. A. G.O. No. 78 Hq of the Army, Adjutant General's Office 1903. B. Letter CE 601.1 Subject: "Acquisition of Land, Fort Getty", Approved in 2nd Indorsement by War Department, July 27, 1942. C. Letter CE 601.1 Subject: "Acquisition of Land, Fort Getty", Approved in 2nd Indorsement by War Department, November 28, 1940.

10. LAND ACQUISITION:

None Required.

SECRET



HARBOR DEFENSES OF NARRAGANSETT BAY	
TACTICAL ORGANIZATION	
REVISED DATE 1 FEB 45	PREPARED BY HARBOR DEFENSES OF NARRAGANSETT BAY
DATE 7-1-43	EX. NO. 1-A

F. I. ADAMS

H.E.C.P.
FT. BURNSIDE

Battalion
G-1
FT. BURNSIDE

Battalion
G-2
FT. ADAMS

Separate Battery

Separate Battery

Btry No 211
MAINTENANCE
(2-6" B.C.)
Ft. Greene So.

M-1
(West Passage)
Prospect Hill

M-2
(East Passage)
Prospect Hill

Btry No 213
(2-6" B.C.)
Ft. Burnside

AMTB No. 1
(4-90 mm)
SC/SL. AMTB-1
Ft. Varnum

AMTB No. 3
(4-90 mm)
SC/SL. AMTB-3
Ft. Wetherill

AA SLs *
No. 1, Ft. Greene
No. 2, North Pt.

AA Cont.

Dual SLs
No. 12, Ft. Burnside
No. 14, Brenton Point
No. 17, Sachuest Point *

Btry No. 212
MAINTENANCE
(2-6" B.C.)
Ft. Church

SC SL No. 7
Ft. Greene So.

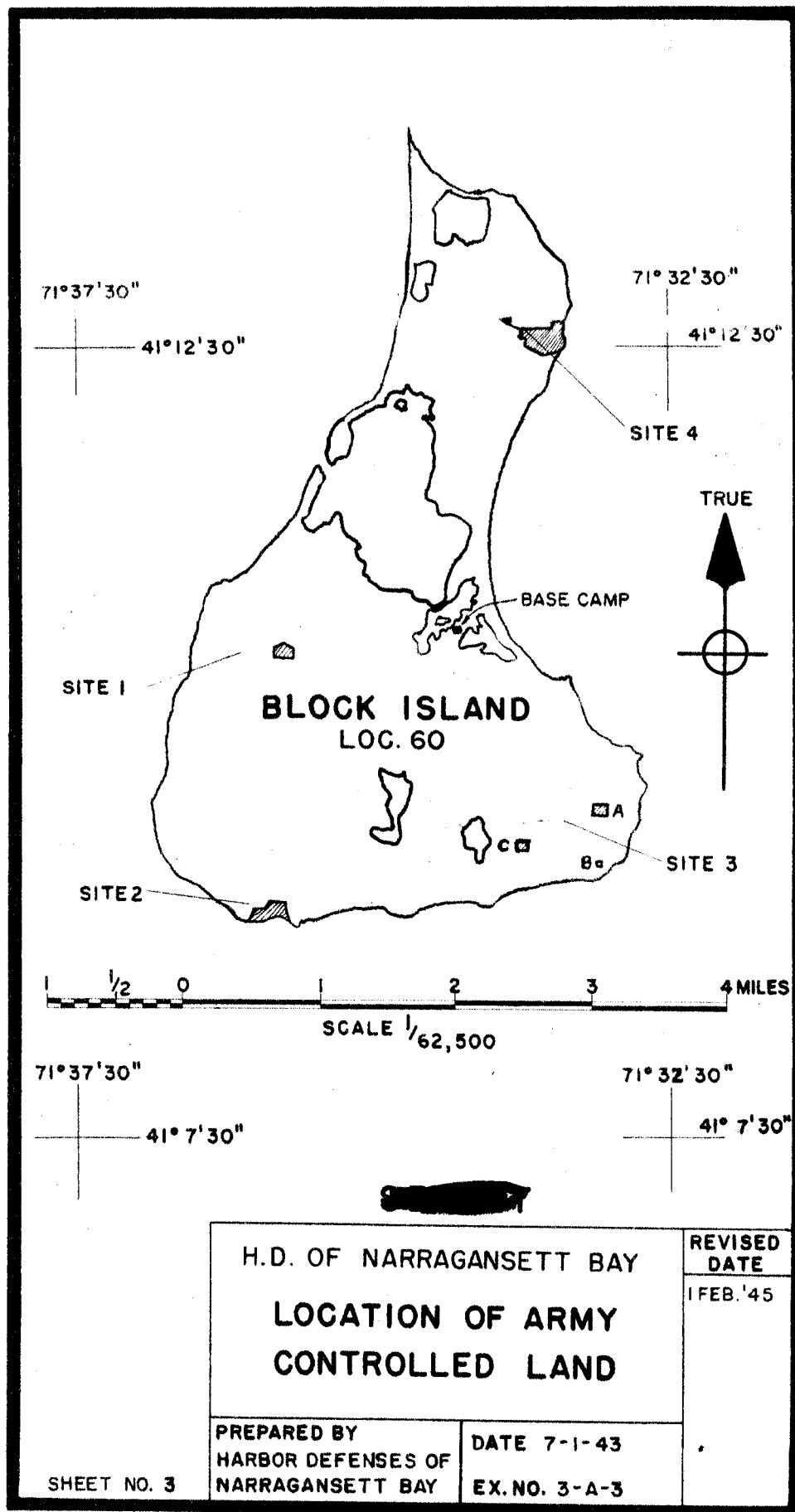
SC SL No. 20
(Warren Pt.)

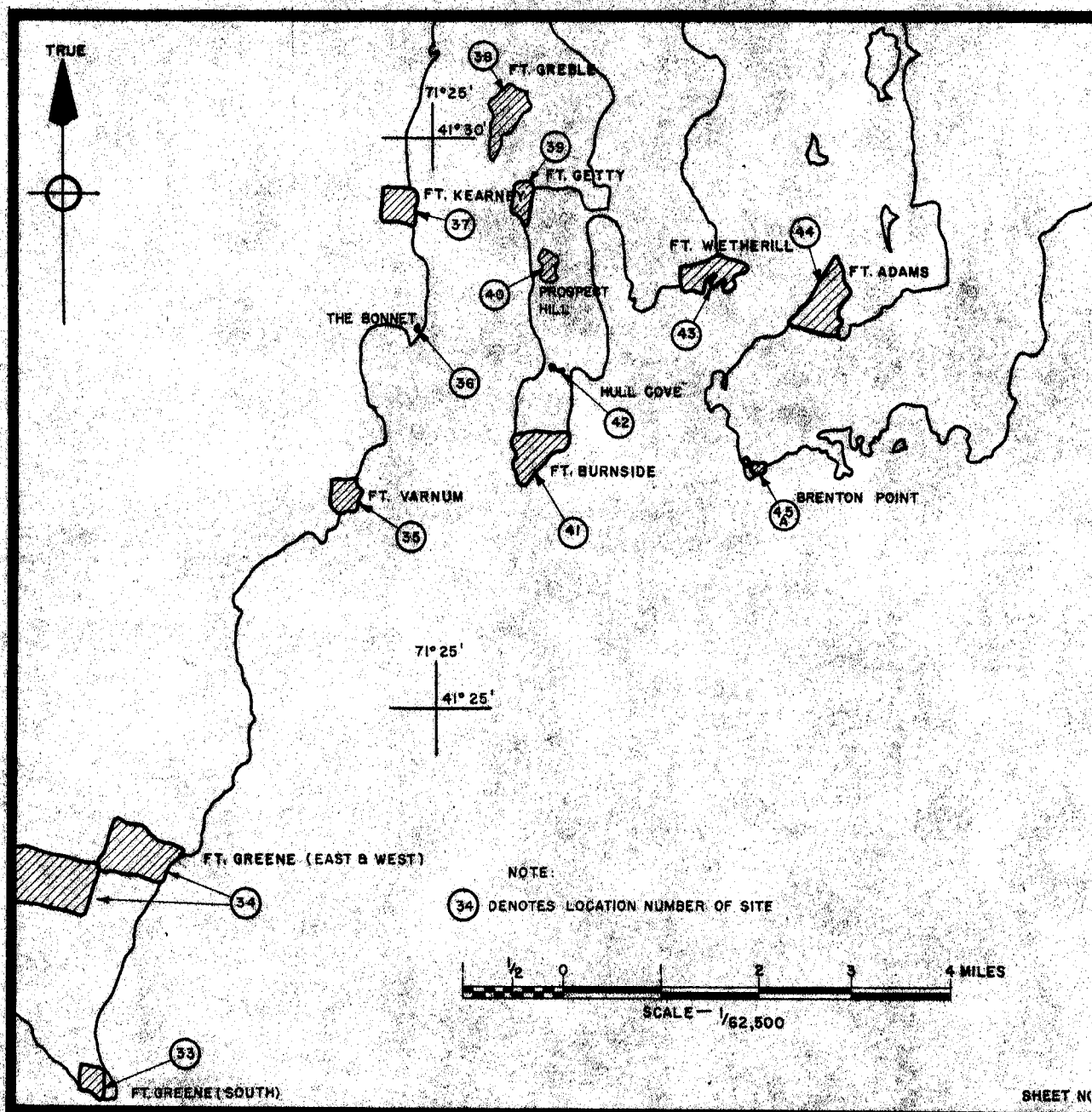
SC Control

REVISIONS
DATE

HARBOR DEFENSES OF
NARRAGANSETT BAY
Current Tactical Organization
Prepared By
Harbor Defenses of
Narragansett Bay
Date: 1 February 1945
Ex. No. 2-A

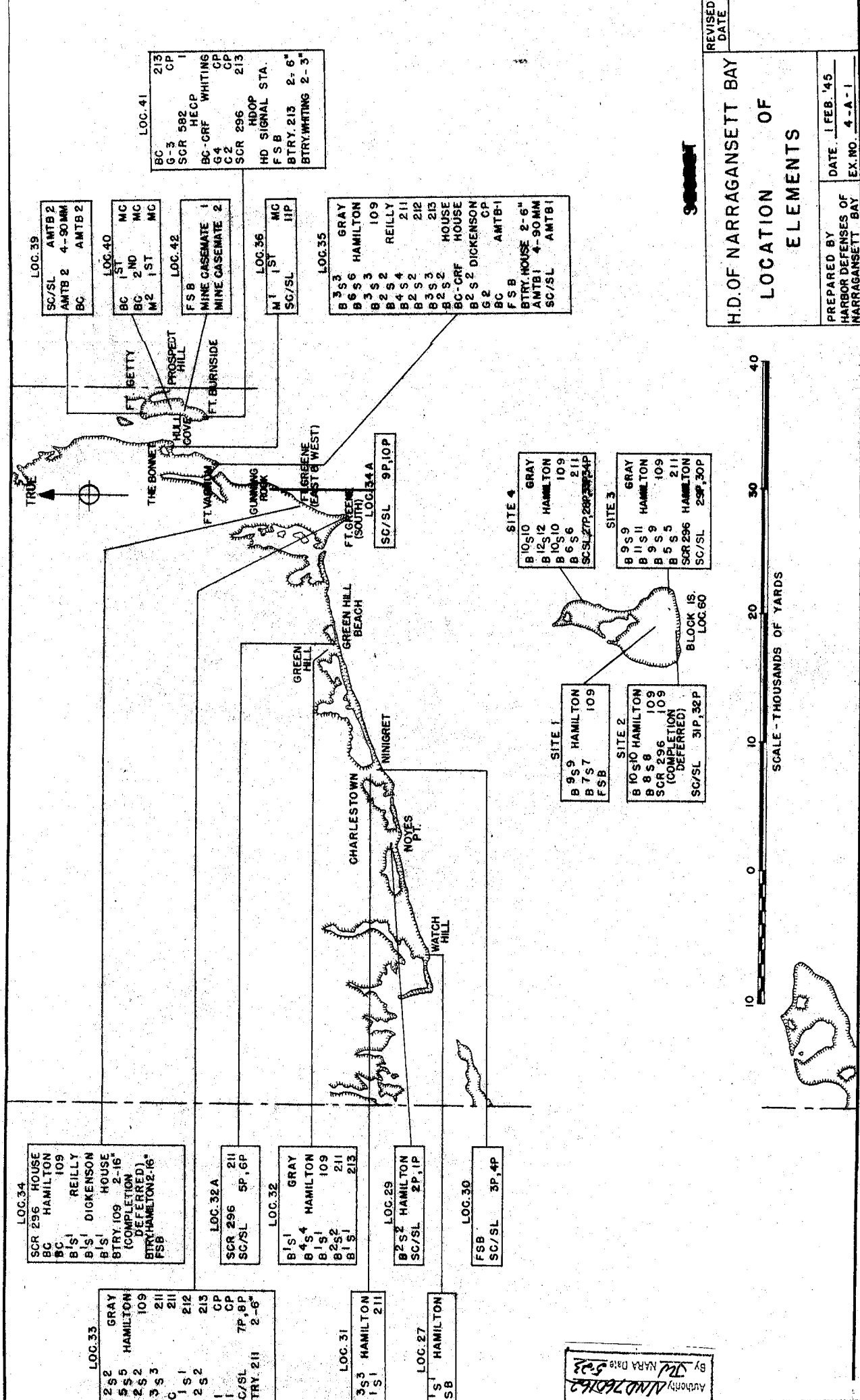
* With SCR-268





REF NO.	WAR DEPARTMENT AUTHORIZATION
13	PROSPECT HILL. Acquired by purchase in 1916 and further acquisition in 1921. Authority WD Circular Date, June 2, 1941, Subject: "Military Reservation, R. I."
14	FORT BURNSIDE (BEAVERTAIL). Letter CE 601.1 Subject: "Acquisition of Land, Beavertail Point", Approved in 2nd Indorsement by War Department, February 25, 1942.
15	HULL COVE SITES 1 and 2 WITH RIGHT OF WAY BETWEEN. Letter CE 601.1 Subject: "Acquisition of Land, Hull Cove", Approved in 2nd Indorsement, July 24, 1942.
16	FORT WETHERILL. G.O. No. 43 Hq of the Army, Adjutant General's Office 1900.
17	FORT ADAMS. Purchased under Article I, Section 8 of the Constitution of the United States 1799.
18	BRENTON POINT SITES 1 and 2. A. Letter CE 601.53 Subject: "Lease with Chas. M. & Mertis C. Young", July 18, 1942. Authority AR 100-61 paragraph 12. B. Letter, Hq Newport Subsector, subject "Structure and Terrain needed by Newport Subsector "dated December 9, 1941, Approved by 2nd Indorsement, WD Office Chief of Engineers, July 28, 1942.
19	SACHUEST POINT. Letter CE 601.1 Subject; "Acquisition of Land, Sachuest Point", Approved in 2nd Indorsement by War Department, August 21, 1941.
20	FORT CHURCH. Letter CE 601.1 Subject: "Acquisition of Land, Fort Church", Approved in 2nd Indorsement by War Department, October 14, 1942.
21	FORT CHURCH SOUTH (SAKONNET PT). Letter CE 601.1 Subject: "Acquisition of Land, Sakonnet Point", Approved in 2nd Indorsement By War Department, August 14, 1942.
22	WARREN POINT, Sites 1 and 2 A. Letter CE 601.1 Subject: "Acquisition of Land, Warren Point, Site No. 1", Approved in 2nd Indorsement by War Department, January 23, 1942. B. Letter CE 601.1 Subject: "Lease Warren Point, Little Compton, R. I.", October 6, 1942. Authority AR 100-61 Paragraph 12.
23	GOOSEBERRY NECK. Letter CE 601.1 Subject: "Acquisition of Land, Gooseberry Neck", Approved by the War Department, 4th Indorsement January 24, 1942.
24	CUTTYHUNK ISLAND SITES 1 and 2, with RIGHT OF WAY. A. Letter CE 601.1 Subject: "Acquisition of Land, Cuttyhunk Island", Approved in 2nd Indorsement by War Department November 16, 1943.

FORM # 2a



LOC. 39
SC/SL AMTB 2
AMTB 2 4-90MM
BC AMTB 2

LOC. 40
BC 1ST MC
BC 2ND MC
M2 1ST MC

LOC. 42
FSB MINE CASEMATE 1
MINE CASEMATE 2

LOC. 36
M1 1ST MC
SC/SL IIP

LOC. 41
BC G-3 CP 213
SCR 582 HECF
BC-CRF WHITING CP
G4 CP
C2 CP
SCR 296 213
HDOP HDOP SIGNAL STA.
FSB BTRY. 213 2-6"
BTRY/WHITING 2-3"

LOC. 35
B33 GRAY
B65 HAMILTON
B33 109
B252 REILLY
B454 211
B252 212
B353 213
B252 HOUSE
BC-CRF HOUSE
B252 DICKENSON
G2 CP
BC AMTB-1
FSB BTRY HOUSE 2-6"
AMTB 1 4-90MM
SC/SL AMTB 1

SITE 4
B10S10 GRAY
B12S12 HAMILTON
B10S10 109
B656 211
SC/SL 27P, 28P, 29P, 30P

SITE 3
B9S9 GRAY
B11S11 HAMILTON
B9S9 109
B5S5 211
SCR 296 HAMILTON
SC/SL 29P, 30P

SITE 1
B9S9 HAMILTON
B7S7 109
FSB

SITE 2
B10S10 HAMILTON
B8S8 109
SCR 296 (COMPLETION DEFERRED)
SC/SL 31P, 32P

LOC. 34
SCR 296 HOUSE
BC HAMILTON
B1S1 REILLY
B1S1 DICKENSON
B1S1 HOUSE
BTRY. 109 2-16"
(COMPLETION DEFERRED)
BTRY-HAMILTON 2-16"
FSB

LOC. 32A
SCR 296 211
SC/SL 5P, 6P

LOC. 32
B1S1 GRAY
B4S4 HAMILTON
B1S1 109
B252 211
B1S1 213

LOC. 29
B252 HAMILTON
SC/SL 2P, 1P

LOC. 30
FSB
SC/SL 3P, 4P

LOC. 33
B252 GRAY
B1S5 HAMILTON
B1S5 109
B1S3 211
B1S3 212
B1S1 213
B1S1 CP
B1S1 CP
B1S1 7P, 8P
SC/SL 211 2-6"
BTRY. 211

LOC. 31
B1S1 HAMILTON
B1S1 211

LOC. 27
B1S1 HAMILTON
B1S1 211

Authority: NMD 760162
By: JLD NARA Date: 5/23/93

REVISOR
DATE

H.D. OF NARRAGANSETT BAY
LOCATION OF
ELEMENTS

PREPARED BY
HARBOR DEFENSES OF
NARRAGANSETT BAY

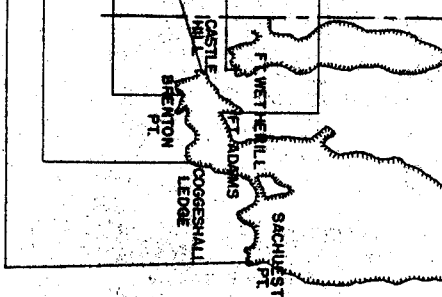
DATE: 1 FEB. '45
EX. NO. 4-A-1



LOC. 43
BC-CRF DICKENSON
M1 2 ND MC
M2 2 ND MC
BC-CRF ORTENSEN
ATMB 3
AMTB 3 4-90MM
BITR/DICKENSON 2-6"
BITR/ORTENSEN 2-5"
FSB
SC/SL
ATMB 3
LOC. 46
B4 S4 GRAY
B7 S7 HAMILTON
B4 S4 109
B3 S3 REILLY
B3 S3 212
B4 S4 213
SCR 296 REILLY
SC/SL 17P, 18P

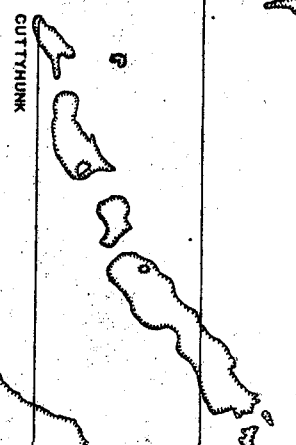
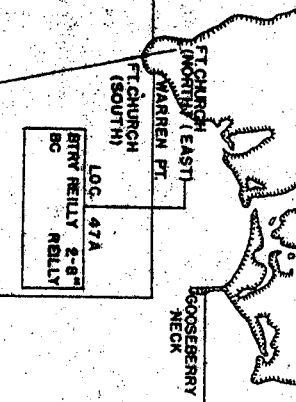
LOC. 44
AA2 3-5"
AA1 (STORAGE)-5"
FSB
MET STA.
TIDE STA.
HDCP
CP

LOC. 45
SC/SL 13P
LOC. 45A
SCR 296 DICKENSON
GRAY
SC/SL 14P
LOC. 45B
SC/SL 15P, 16P

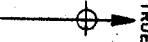
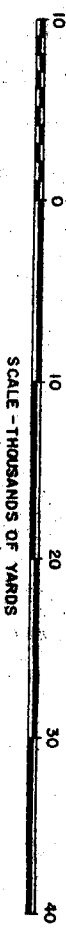


LOC. 47
BITR GRAY 2-16"
BC
FSB
LOC. 48
BC
BITR 212 2-6"
SC/SL 19P
LOC. 49
SCR 296 212
B5 S5 GRAY
B5 S5 HAMILTON
B5 S5 109
B4 S4 REILLY
B4 S4 212
B5 S5 213
CP
SC/SL 20P

LOC. 47A
BITR REILLY 2-8"
BC
REILLY



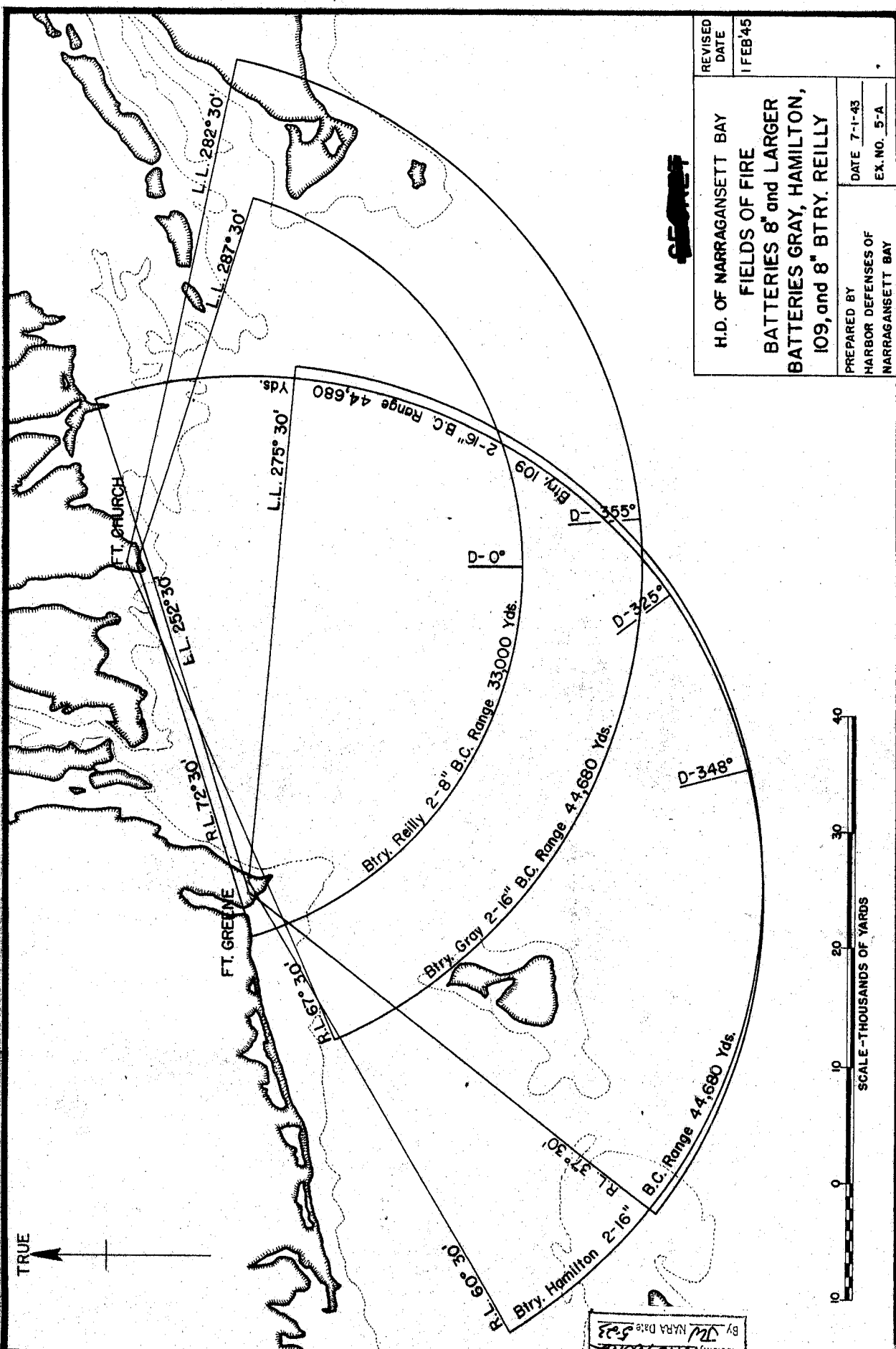
LOC. 50
SC/SL 21P, 22P
FSB
B6 S6 GRAY
B5 S5 109
B5 S5 REILLY
B5 S5 212
LOC. 57
FSB
B7 S7 GRAY
B6 S6 REILLY
B6 S6 212
SC/SL 23P, 24P
LOC. 59
B5 S8 GRAY
SC/SL 25P, 26P



H.D. OF NARRAGANSETT BAY
LOCATION OF
ELEMENTS

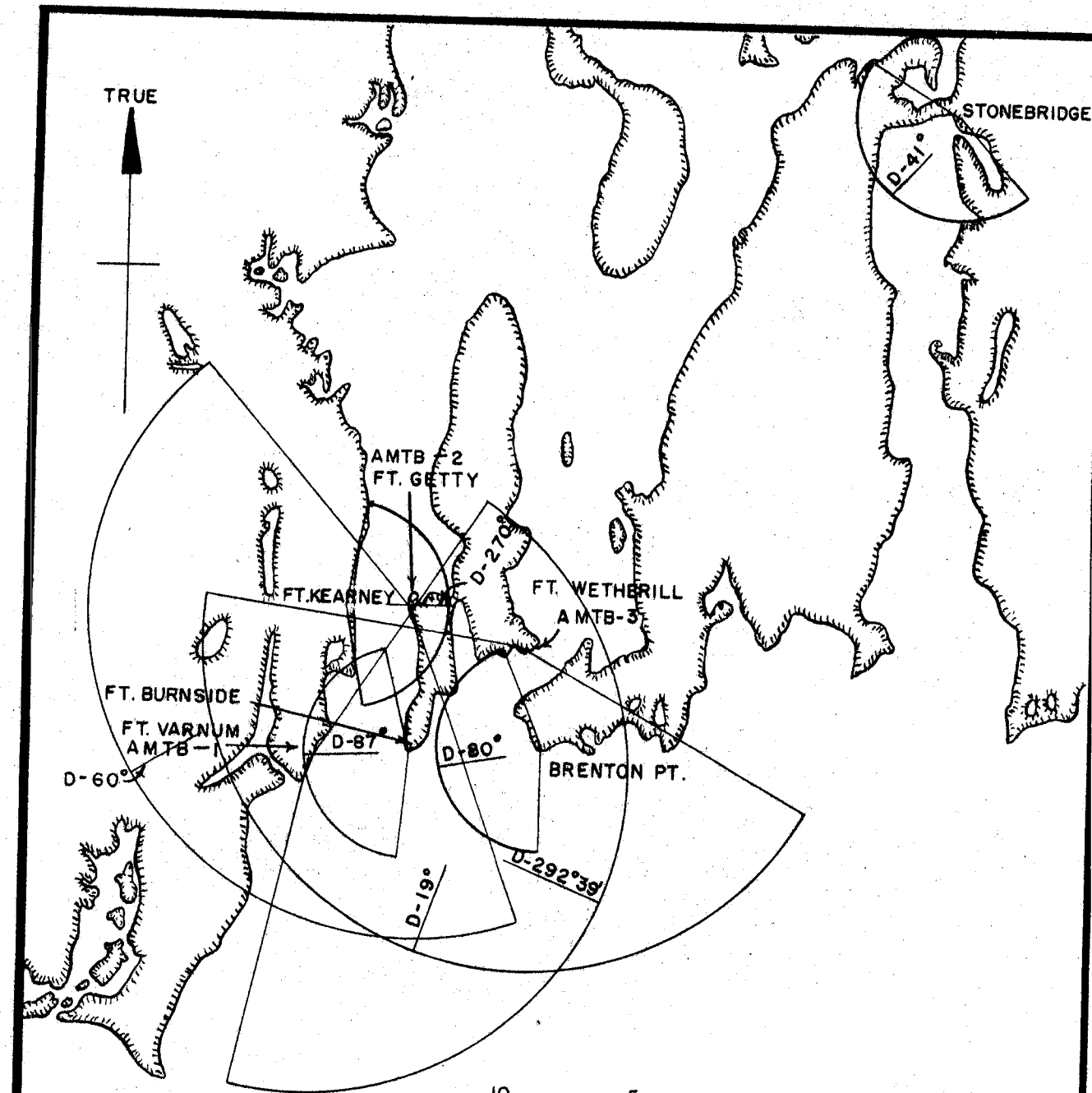
PREPARED BY
HARBOR DEFENSES OF
NARRAGANSETT BAY
DATE 1 FEB. '45
EX. NO. 4-A-2

REVISED
DATE



H.D. OF NARRAGANSETT BAY BATTERIES 8 and LARGER BATTERIES GRAY, HAMILTON, 109, and 8" BTRY. REILLY		REVISED DATE 1 FEB 45
PREPARED BY HARBOR DEFENSES OF NARRAGANSETT BAY	DATE 7-1-43 EX. NO. 57A	

By *WJ* NARA Date *5-23*



H.D. OF NARRAGANSETT BAY FIELDS OF FIRE ANTI MOTOR TORPEDO BOAT BATTERIES

PREPARED BY
HARBOR DEFENSES OF
NARRAGANSETT BAY

1 FEBRUARY 1945

EX. NO. 7A

REVISED
DATE

ANNEX B

INDEX

- Par. 1 General
- Par. 2 Orientation Data
- Par. 3 Command and Fire Control Elements, excluding Batteries
- Par. 4 Post Telephone System
- Par. 5 Teletype
- Par. 6 Radio Communications
- Par. 7 Battery Fire Control Elements
- Par. 8 Datum Points
- Par. 9 Land Acquisition
- Par. 10 Radar Equipment

EXHIBITS

- 1-B Local Plane Coordinate System Grid
- 2-B Radio Net
- 3-B Datum Points
- 4-B Area of Detection - Radars
- 5-B Fields of Fire Individual Batteries
- 6-B Circuit Diagram
- 7-B Cable Routings
- 8-B Schematic Cable Diagram
- 9-B Fire Control Installations

1. GENERAL:

Fire control equipment is subject to the inherent limitations of the particular type used, its physical location, and effects of weather variations. An adequate intelligence system is vital for correct identification of enemy vessels.

a. Plotting boards require an angle of intersection at the target of 15° or greater. This limitation has been reduced in importance by use of multiple base-end stations.

b. DPF's are effective sources of fire control data when sited above 90' elevation. Many coastline sites have sufficient elevation so that required height has been achieved by medium sized towers and low cottage type observation stations.

c. Normal limit of local atmospheric visibility is 20,000 yards. Frequent haze, fog, and other conditions of reduced visibility operate to establish an average expectancy of 10,000 yards or less. Fire control by operation of plotting boards using baselines or DPF's is subject to visibility limits, but Radar will overcome this weakness provided the enemy can be so identified through available intelligence channels.

d. Radars have been installed on commanding heights atop a special 100' steel tower or on existing high observation station. Most radars are so sited as to have an effective antennae range beyond the maximum range of the battery to which assigned. Effects of terrain and actual operating limits have been determined and are indicated on Exhibits 4-B-2 to 4-B-11 inclusive.

e. The Navy, Coast Guard, and Air Forces have established agencies and procedures for identification and location of enemy vessels. This information is available to the Harbor Defense commander through the higher Army Command echelons, H.E.C.P. and direct communication to the agency involved.

2. ORIENTATION DATA:

The orientation data of this harbor defense is based on the Lambert Grid for Narragansett Bay. The annexes to the Harbor Defense Project which were prepared in 1933 and revised in 1938 recommended that the orientation data for the Harbor Defenses in the Newport Subsector be redetermined on one system extending from Montauk to Buzzards Bay. Using this system, orientation data for the stations of one harbor defense are available to batteries in the adjacent harbor defenses.

The system was set up by the U.S. Coast and Geodetic Survey of 1940. The data for conversion from geographic coordinates to this special grid are contained in a booklet issued by the U.S. Coast and Geodetic Survey entitled, "Tables for Computation of Plane Coordinates - Lambert Grid for Narragansett Bay."

The system is based on the Lambert conformal conic projection with two standard parallels, 40° 49' N and 41° 31' N. The area is 2° wide on each side of the central meridian 71° 29' W. The intersection of longitude 71° 29' W and latitude 40° 40' N has the coordinates

X - 100,000

Y - 000

Exhibit 1-B shows the Local Plane Grid Coordinate System for Narragansett Bay.

~~SECRET~~

ORIENTATION DATA

LOC NO.	SITE NO.	STATION	COORDINATES	
			X	Y
44	1B	HDGP	112901.00	97924.00
41	1C	HECP	107828.87	95693.39
44	1B	AACP G-6	112901.00	97924.00
33	1B	C1 OP	99651.26	84680.53
41	1C	C2 OP	107829.88	95694.87
49	1B	C3 OP	128297.98	96543.42
33	1B	G1 OP	99647.37	84680.53
35	1A	G2 OP	104465.07	94667.20
41	1C	G3 OP	107827.17	95693.60
41	1C	G4 OP	107833.12	95696.40
49	1A	G5 OP	128586.46	96521.58
41	1C	SCR-582-1	107828.87	95693.39
34	1C	BC ₁	99365.24	86643.31
34	1B	DP ₁	99144.50	86510.57
60	2C	SCR-296-1	89582.96	58582.11
32	1A	B ₁ ¹ S ₁ ¹	89492.10	85638.01
33	1C	B ₁ ² S ₁ ²	99727.82	84675.36
35	1A	B ₁ ³ S ₁ ³	104460.99	94665.73
46	1C	B ₁ ⁴ S ₁ ⁴	121703.23	98184.91
49	1A	B ₁ ⁵ S ₁ ⁵	128598.16	96523.64
50	1B	B ₁ ⁶ S ₁ ⁶	140575.50	99507.07
60	1A	B ₁ ⁷ S ₁ ⁷	90027.59	61812.85
60	2A	B ₁ ⁸ S ₁ ⁸	89212.37	58417.18
60	3A	B ₁ ⁹ S ₁ ⁹	93973.50	59747.16
60	4B	B ₁ ¹⁰ S ₁ ¹⁰	92842.19	66325.54
34	1C	BC ₂	99365.24	86643.31
34	2A	DP ₂	99885.83	86779.98
60	3B	SCR-296-2	93641.32	59101.45
27	2B	B ₂ ¹ S ₂ ¹	65610.07	77458.64

~~SECRET~~

ORIENTATION DATA

LOC NO.	SITE NO	STATION	COORDINATES	
			X	Y
29	1B	B ₂ ² S ₂ ²	75020.26	80877.64
31	1A	B ₂ ³ S ₂ ³	79795.00	84001.24
32	1A	B ₂ ⁴ S ₂ ⁴	89492.10	85838.01
33	1B	B ₂ ⁵ S ₂ ⁵	99651.26	84680.53
35	1B	B ₂ ⁶ S ₂ ⁶	104513.18	94754.61
46	1B	B ₂ ⁷ S ₂ ⁷	121681.92	98186.44
49	1A	B ₂ ⁸ S ₂ ⁸	128590.39	96522.45
60	1A	B ₂ ⁹ S ₂ ⁹	90027.59	61812.85
60	2A	B ₂ ¹⁰ S ₂ ¹⁰	89212.37	58417.18
60	3A	B ₂ ¹¹ S ₂ ¹¹	93973.50	59747.16
60	4B	B ₂ ¹² S ₂ ¹²	92842.19	66325.54
33	1C	BC ₃	99735.33	84679.69
33	1A	DP ₃	99738.49	84429.56
32A	1A	SCR-296-3	89690.43	84866.71
31	1A	B ₃ ¹ S ₃ ¹	79798.08	84004.49
32	1B	B ₃ ² S ₃ ²	89539.14	85842.03
33	1D	B ₃ ³ S ₃ ³	99811.37	84711.69
35	1B	B ₃ ⁴ S ₃ ⁴	104521.19	94757.93
60	3A	B ₃ ⁵ S ₃ ⁵	93977.13	59750.30
60	4A	B ₃ ⁶ S ₃ ⁶	92850.96	66238.86
35	1F	BC ₄	104569.68	94676.28
35	1F	CRF ₄	104569.68	94676.28
35	1F	DP ₄	104569.14	94624.93
34	2D	SCR-296-4	100431.70	87125.49
34	2C	B ₄ ¹ S ₄ ¹	100428.45	87053.68
35	1D	B ₄ ² S ₄ ²	104604.83	94906.68
41	1D	BC ₅	107816.93	95329.85
41	1D	CRF ₅	107816.93	95329.85

SECRET

LOC NO.	SITE NO	STATION	ORIENTATION DATA	
			COORDINATES	
			X	Y
41	1D	DP ₅	107825.92	95229.12
41	1C	BC ₆	107823.84	95692.04
41	1A	DP ₆	107694.44	95526.06
41	1E	SCR-296-6	108013.88	95930.45
32	1C	B ₆ ¹ S ₆ ¹	89596.33	85861.23
33	1D	B ₆ ² S ₆ ²	99811.37	84711.69
35	1A	B ₆ ³ S ₆ ³	104459.17	94661.80
46	1A	B ₆ ⁴ S ₆ ⁴	121630.76	98177.66
49	1A	B ₆ ⁵ S ₆ ⁵	128594.17	96523.11
43	1B	BC ₇	110629.83	98578.09
43	1A	DP ₇	110719.36	98588.83
43	1B	CRF ₇	110631.09	98581.36
45A	1B	SCR-296-7	111596.64	95315.34
34	2C	B ₇ ¹ S ₇ ¹	100428.45	87053.68
35	1D	B ₇ ² S ₇ ²	104606.62	94904.93
43	1C	BC ₈	110788.33	98590.88
43	1C	DP ₈	110774.65	98588.90
43	1C	CRF ₈	110755.42	98588.68
47	1B	BC ₉	127433.36	98777.53
47	1B	DP ₉	127326.26	98752.72
45A	1C	SCR-296-9	111914.86	95194.31
32	1C	B ₉ ¹ S ₉ ¹	89596.33	85861.23
33	1C	B ₉ ² S ₉ ²	99727.82	84675.36
35	1C	B ₉ ³ S ₉ ³	104559.05	94836.68
46	1B	B ₉ ⁴ S ₉ ⁴	121681.92	98186.44
49	1B	B ₉ ⁵ S ₉ ⁵	128297.98	96543.42
50	1D	B ₉ ⁶ S ₉ ⁶	140605.93	99492.29
57	1D	B ₉ ⁷ S ₉ ⁷	149830.85	91560.17
59	1A	B ₉ ⁸ S ₉ ⁸	159108.89	82866.24

FORM # 6

ORIENTATION DATA

LOC NO.	SITE NO	STATION	COORDINATES	
			X	Y
60	3C	B ⁹ S ⁹ 9 9	92723.90	59312.60
60	4A	B ¹⁰ S ¹⁰ 9 9	92850.96	66238.86
47A	2C	BC ₁₀	128281.00	98488.82
47A	2A	DP ₁₀	128364.56	98280.83
46	1D	SCR-296-10	121620.31	98227.23
34	2C	B ¹ S ¹ 10 10	100428.45	87045.02
35	1C	B ² S ² 10 10	104563.28	94837.61
46	1C	B ³ S ³ 10 10	121703.23	98184.91
49	1B	B ⁴ S ⁴ 10 10	128294.03	96542.60
50	1B	B ⁵ S ⁵ 10 10	140575.50	99507.07
57	1E	B ⁶ S ⁶ 10 10	149863.10	91551.76
48	1B	BC ₁₁	126829.40	96385.37
48	1A	DP ₁₁	126924.10	96340.31
49	1C	SCR-296-11	128573.16	96539.04
33	1D	B ¹ S ¹ 11 11	99814.72	84713.87
35	1C	B ² S ² 11 11	104556.75	94833.02
46	1C	B ³ S ³ 11 11	121703.23	98184.91
49	1B	B ⁴ S ⁴ 11 11	128303.11	96541.52
50	1D	B ⁵ S ⁵ 11 11	104605.93	99492.29
57	1B	B ⁶ S ⁶ 11 11	149822.98	91602.88
36	1A	M ₁ ¹	105862.43	97817.32
40	1A	M ₁ ²	108117.10	98713.65
43	1E	M ₂ ²	110465.09	98673.58
43	1D	M ₂ ¹	111413.30	98557.10
40	1C	M-1 & M-2	108188.92	98847.32
35	1G	BC-AMTB-1	104593.61	94766.53
35	1G	DP-AMTB-1	104623.83	94780.06
39	1B	BC-AMTB-2	107619.82	100058.38
39	1B	DP-AMTB-2	107580.96	100059.00

FORM # 6

Par. 3

EXISTING COMMAND AND FIRE CONTROL ELEMENTS EXCLUDING BATTERIES										
LOC NO.	SITE NO.	STATION	GAS & BOMB PRIN	ELEV	H.I.	TYPE OF INST	ARC OF VIEW		MEN	TYPE OF STRUCTURE
							LL	RL		
44	1B	HDCP	BP-GP	38'	-	-	-	-	55	Bombproof
41	1C	HECP	SP	74'	82'	AI	253	57	20	Cottage
44	1B	AACP G-6	BP-GP	38'	-	-	-	-	15	Bombproof
41	1C	HDOP	SP	74'	82'	AI	253	57	4	Cottage
41	1C	Sig. Sta.	None	74'	74'	AI	360	view	6	None
41	1C	SCR-582	None	74'	94'	-	-	-	6	Cottage
33	1B	C-1	SP	26'	-	-	-	-	8	Cottage
33	1B	C-1 OP	SP	26'	34'	AI	280	72	4	Cottage
41	1C	C-2	SP-GP	74'	-	-	-	-	8	Cottage
41	1C	C-2 OP	SP	74'	90'	AI	253	57	4	Cottage
49	1B	C-3	SP	26'	-	-	-	-	8	Cottage
49	1B	C-3 OP	SP	26'	38'	AI	310	65	4	Cottage
33	1B	G-1	SP	26'	-	-	-	-	8	Cottage
33	1B	G-1 OP	SP	26'	34'	AI	288	80	4	Cottage
35	1A	G-2	SP	15'	-	-	-	-	8	Cottage
35	1A	G-2 OP	SP	15'	32'	AI	209	43	4	Cottage
41	1C	G-3	SP-GP	74'	-	-	-	-	8	Cottage
41	1C	G-3 OP	SP	74'	90'	AI	253	57	4	Cottage
41	1C	G-4	SP-GP	74'	-	-	-	-	8	Cottage
41	1C	G-4 OP	SP	74'	90'	AI	253	57	4	Cottage
49	1A	G-5	SP	18'	-	-	-	-	8	Cottage
49	1A	G-5 OP	SP	18'	25'	AI	267	100	4	Cottage
44	1E	Tide Sta	None	10'	-	-	-	-	3	None
44	1B	Message Center	BP-GP	38'	-	-	-	-	10	Bombproof
44	1A	Met Sta	SP	40'	-	-	-	-	6	Old BC Sta.
44	1B	FSB & PSB	BP-GP	38'	-	-	-	-	6	Bombproof
41	1C	PSB	SP	74'	-	-	-	-	3	Cottage
41	1B	FSB	BP-GP	56'	-	-	-	-	3	Bombproof

FORM # 7

Par. 3 cont'd

EXISTING COMMAND AND FIRE CONTROL ELEMENTS EXCLUDING BATTERIES										
LOC NO.	SITE NO.	STATION	GAS & BOMB PRTN	ELEV	H.I.	TYPE OF INST	ARC OF VIEW		MEN	TYPE OF STRUCTURE
							LL	RL		
30	1A	FSB	SP	10'	-	-	-	-	3	Underground
27	2A	FSB #	SP	22'		-	-	-	3	Cottage
34	2B	FSB & PSB	BP-GP	28'	-	-	-	-	6	Bombproof
35	1D	FSB	SP-GP	12'	-	-	-	-	3	Cottage
42	1A	FSB	SP	25'	-	-	-	-	3	Underground
43	1B	FSB	BP-GP	40'	-	-	-	-	3	Old Casemate
47	1C	FSB & PSB	BP-GP	50'	-	-	-	-	6	Bombproof
50	1C	FSB *	SP	14'	-	-	-	-	3	Underground
57	2A	FSB *	SP	154'	-	-	-	-	3	Underground
60	1A	FSB & PSB (See Note)	SP	201'	-	-	-	-	3	Cottage
37	1A	CH	SP	10'	-	-	-	-	-	Cement Hut
39	1A	CH	SP	15'	-	-	-	-	-	Cement Hut
40	1B	CH	SP	15'	-	-	-	-	-	Cement Hut
# Maintained by HD of Long Island Sound.										
* Maintained by HD of New Bedford.										
NOTE PSB will be required only under full manning status.										

Maintained by HD of Long Island Sound.

* Maintained by HD of New Bedford.

NOTE PSB will be required only under full manning status.

FORM # 7

4. POST TELEPHONE SYSTEM:

a. Post switchboards are located at Ft. Church, Ft. Adams, Ft. Burnside, Ft. Greene, and installation of one is proposed at Block Island. Complete description of the PBX's is tabulated in paragraph c through g below.

b. Each isolated location, all battalion CP's, group CP's, BC Stations, and Plotting Rooms are provided with a connection to the nearest PBX, and this network augments the regular fire control telephone system in case of emergency.

c. Fort Church.

- (1) Location: Plotting Room, Battery Gray, Ft. Church
(Loc. 47, Site 1-C)
- (2) Line Capacity: 200 lines, 2 positions, manually operated.
- (3) Manufactured by: Kellogg Switchboard and Supply Co.
- (4) Commercial Trunk Connections: 1 commercial trunk to Little Compton Exchange.
- (5) Trunk Connection with other PBX: 2 trunks to Ft. Adams
2 trunks to Ft. Burnside
- (6) Degree of Protection: Bombproof and gasproof.

d. Fort Adams.

- (1) Location: H Station, Ft. Adams (Loc. 44, Site 1-B)
- (2) Line Capacity: 400 lines, 3 positions, manual, multiple
- (3) Manufactured by: Kellogg Switchboard and Supply Co.
- (4) Commercial Trunk Connections: 8 trunks to Newport
- (5) Trunk Connection with other PBX: 3 trunks to Ft. Burnside
2 trunks to Ft. Church
2 trunks to Ft. Greene
1 trunk to Block Island
1 trunk to HD of Long Island Sound (Ft. Wright)
1 trunk to HD of New Bedford (Ft. Rodman)
1 trunk to Northeastern Sector
- (6) Degree of Protection: Bombproof and gasproof

e. Fort Burnside.

- (1) Location: H.E.C.P. Building, Ft. Burnside (Loc. 41, Site 1-C)
- (2) Line Capacity: 100 lines, single position, manual
- (3) Manufactured by: Western Electric Mfg. Co.
- (4) Commercial Trunk Connections: 1 trunk to Jamestown Exchange

- (5) Trunk Connection with other PBX: 3 trunks to Ft. Adams
2 trunks to Ft. Greene
2 trunks to Ft. Church

(6) Degree of Protection: Splinterproof

f. Fort Greene.

- (1) Location: Plotting Room, Battery Hamilton, Ft. Greene
(Loc. 34, Site 2-B)
- (2) Line Capacity: 200 lines, single position, manual
- (3) Manufactured by: Stromberg-Carlson Mfg. Co.
- (4) Commercial Trunk Connections: 1 trunk to Narragansett
Exchange
- (5) Trunk Connection with other PBX: 2 trunks to Ft. Adams
2 trunks to Ft. Burnside
1 trunk to Block Island

(6) Degree of Protection: Bombproof, gasproof

g. It is proposed to locate a PBX at Block Island, Loc. 60, Site 1-A, when conditions warrant the use of same. A single position, 50-line, manually operated board would be required. This board should have one commercial trunk connection to the Block Island exchange, one trunk connection to Ft. Greene, and one trunk connection to Ft. Adams.

5. TELETYPE:

There is no teletype net within the Harbor Defenses. There are three teletype machines in the HDCP which provide communications with North-eastern Sector, Naval Operating Base at Newport, Harbor Defense of Long Island Sound and Harbor Defense of New Bedford.

6. RADIO COMMUNICATIONS:

The radio net along with sets authorized are shown in Exhibit 2-B.

7. BATTERY FIRE CONTROL ELEMENTS:

In addition to the instruments listed in the accompanying table each group, battalion, battery command and spotting station is authorized one azimuth instrument M1910 A1.

BATTERY FIRE CONTROL ELEMENTS										
BATTERY Cons. No. 109					TACTICAL NO. 1					
LOCATION NO. 34 West					FIELD OF FIRE EXHIBIT 5-B-1					
LOC NO.	SITE NO.	STA	ELEV	H. I.	NO AND TYPE OF FC INSTR.	ARC OF VIEW		MEN	TYPE OF CONST.	COMB. WITH STA.
						LL	RL			
32	1A	B ¹ S ¹ F	67	118.0	DPF M2	242	98	6	Towor	B ⁴ ₂
33	1C	B ² S ²	26	40.0	AI M2	203	50	6	Cottago	B ² ₉ , BC ₃
34	1C	BC ₁	60	92.0	DPF M2	242	70	4	Silo	BC ₂
35	1A	B ³ S ³	15	41.0	AI M2	204	14	6	Cottago	B ³ ₆ , G2
46	1C	B ⁴ S ⁴	39	69.0	AI M2	267	98	6	Silo	B ³ ₁₁ , B ³ ₁₀
49	1A	B ⁵ S ⁵	18	25.2	AI M2	240	32	6	Cottago	B ⁸ ₂ , B ⁵ ₆ , G5
50	1B	B ⁶ S ⁶ F	14	33.5	AI M2	281	109	6	Cottago	B ⁵ ₁₀
60	1A	B ⁷ S ⁷	201	212.38	DPF M2	40	185	6	Cottago	B ⁹ ₂
60	2A	B ⁸ S ⁸	98	111.43	AI M2	275	190	6	Cottago	B ¹⁰ ₂ , B ^{6*} ₃
60	3A	B ⁹ S ⁹	136	151.92	DPF M2	190	55	6	Barn - Silo	B ¹¹ ₂ , B ⁵ ₃
60	4B	B ¹⁰ S ¹⁰	134	148.37	DPF M2	45	340	6	Silo	B ¹² ₂

BASE LINE DATA FOR STATIONS LISTED ABOVE

FROM	TO	AZIMUTH	LENGTH
B ¹	B ²	276.48	10302
B ²	B ³	206.35	11055
B ³	B ⁴	258.46	17598
B ⁴	B ⁵	283.55	7092
B ⁵	B ⁶	256.01	12343
B ⁶	B ⁷	53.29	63055
B ⁷	B ⁸	13.50	3492

FROM	TO	AZIMUTH	LENGTH
B ⁸	B ⁹	254.39	4943
B ⁹	B ¹⁰	170.24	6675
B ¹⁰	B ⁸	240.65	8702
B ⁷	B ¹⁰	211.95	5318

F Indicates Flank Station
 * Long Island Sound

FORM # 8

BATTERY FIRE CONTROL ELEMENTS										
BATTERY <u>Btry Hamilton</u>					TACTICAL NO. <u>2</u>					
LOCATION NO. <u>34 East</u>					FIELD OF FIRE EXHIBIT <u>5-B-2</u>					
LOC NO.	SITE NO.	STA	ELEV	H. I.	NO. AND TYPE OF FC INSTR	ARC OF VIEW		MEN	TYPE OF CONST.	COMB. WITH STA.
						LL	RL			
27	2B	B ¹ S ¹ F	20'	63'	AI M2	250	50	6	Tower	B ^{9*} B ^{5*} ₁₂ B ₈
29	1B	B ² S ²	63	117.6	AI M2	230	84	6	Tower	B ^{10*} ₁₂
31	1A	B ³ S ³	97	113.0	AI M2	260	96	6	Cottago	B ¹ ₃ , B ^{11*} ₁₂
32	1A	B ⁴ S ⁴	67	125.0	AI M2	242	98	6	Tower	B ¹ ₁
33	1B	B ⁵ S ⁵	26	42.0	AI M2	268	85	6	Cottago	C1, G1, C1OP
34	1C	BC ₂	60	85.0	DPF M2	242	70	4	Silo	BC ₁
35	1B	B ⁶ S ⁶	16	33.0	AI M2	264	74	6	Cottago	B ⁴ ₃
46	1B	B ⁷ S ⁷	40	54.0	AI M2	300	65	6	Barn	B ⁴ ₉
49	1A	B ⁸ S ⁸ F	18	33.3	AI M2	268	70	6	Cottago	B ⁵ ₆ , G5, B ⁵ ₁
60	1A	B ⁹ S ⁹	201	204.8	DPF M2	30	190	6	Cottago	B ⁷ ₁
60	2A	B ¹⁰ S ¹⁰	99	118.4	AI M2	275	180	6	Cottago	B ⁸ ₁ , B ^{6*} ₃
60	3A	B ¹¹ S ¹¹	136	159.6	DPF M2	190	55	6	Barn - Silo	B ⁹ ₁ , B ⁵ ₃
60	4B	B ¹² S ¹²	134	155.4	DPF M2	45	340	6	Silo	B ¹⁰ ₁

BASE LINE DATA FOR STATIONS LISTED ABOVE

FROM	TO	AZIMUTH	LENGTH
B ¹	B ²	250.03	10012
B ²	B ³	236.69	5705
B ³	B ⁴	222.74	2501
B ⁴	B ⁵	276.50	10225
B ⁵	B ⁶	205.78	11188
B ⁶	B ⁷	258.70	17508

FROM	TO	AZIMUTH	LENGTH
B ⁷	B ⁸	283.54	7106
B ⁸	B ⁹	48.01	51883
B ⁹	B ¹⁰	13.50	3492
B ¹⁰	B ¹¹	254.39	4943
B ¹¹	B ¹²	170.24	6675

* Long Island Sound
F Indicates Flank Station - 13 -

FORM # 8

BATTERY FIRE CONTROL ELEMENTS										
BATTERY Cons. No. 211					TACTICAL NO. 3					
LOCATION NO. 33					FIELD OF FIRE EXHIBIT 5-B-3					
LOC NO.	SITE NO.	STA	ELEV	H. I.	NO. AND TYPE OF EC INSTR	ARC OF VIEW		MEN	TYPE OF CONST.	COMB. WITH STA.
						LL	RL			
31	1A	B ¹ S ¹ F	97	121.5	DPF M2	82	72	6	Cottago	B ³ B ¹¹ * 2 12
32	1B	B ² S ²	62	121.6	AI M2	245	99	6	Tower	B ¹² * 12
33	1C	BC ₃	26	47.0	AI M19-10A1	203	50	4	Cottago	B ² B ² 1 9
33	1D	B ³ S ³	24	49.5	AI M2	222	72	6	Cottago	B ¹ B ² 11 6
35	1B	B ⁴ S ⁴ F	16	33.0	AI M2	240	50	6	Cottago	B ⁶ 2
60	3A	B ⁵ S ⁵	136	142.0	DPF M2	190	340	6	Barn-Silo	B ¹¹ B ⁹ 2 1
60	4A	B ⁶ S ⁶	141	162.7	DPF M2	45	340	6	Silo	B ⁶ *B ¹⁰ 2 9

BASE LINE DATA FOR STATIONS LISTED ABOVE

FROM	TO	AZIMUTH	LENGTH
B ¹	B ²	259.33	9923
B ²	B ³	276.55	10179
B ³	B ⁴	205.79	11192
B ⁴	B ⁵	16.76	36561
B ⁵	B ⁶	170.15	6586

FROM	TO	AZIMUTH	LENGTH

F Indicates Flank Station
* Long Island Sound

FORM # 8

SECRET

BATTERY FIRE CONTROL ELEMENTS										
BATTERY <u>House</u>					TACTICAL NO. <u>4</u>					
LOCATION NO. <u>35</u>					FIELD OF FIRE EXHIBITS <u>5-B-4</u>					
LOC NO.	SITE NO.	STA	ELEV	H.I.	NO AND TYPE OF FC INSTR	ARC OF VIEW		MEN	TYPE OF CONST.	COMB. WITH STA.
						LL	RL			
34	2C	B ¹ S ¹ F	31	45.0	AI M2	189	12	6	Cottage	B ¹ B ¹ _{7 10}
35	1D	B ² S ² F	12	39.5	AI M2	235	75	6	Cottage	B ² P ² _{7 4}
35	1F	BC ₄	16	21.3	AI M19-10A1	220	30	4	Manhole	CRF ₄
35	1F	CRF ₄	16	21.3	CRF	220	30	3	Manhole	BC ₄

BASE LINE DATA FOR STATIONS LISTED ABOVE

FROM	TO	AZIMUTH	LENGTH
B ¹	B ²	208.01	8894

FROM	TO	AZIMUTH	LENGTH

F Indicates Flank Station

FORM # 8

BATTERY FIRE CONTROL ELEMENTS										
BATTERY <u>Whiting</u>						TACTICAL NO. <u>5</u>				
LOCATION NO. <u>41</u>						FIELD OF FIRE EXHIBIT <u>5-B-5</u>				
LOC NO.	SITE NO.	STA	ELEV	H.I.	NO AND TYPE OF FC INSTR.	ARC OF VIEW		MEN	TYPE OF CONST.	COMB. WITH STA.
						LL	RL			
41	1D	BC ₅	47	52.5	AI M1910-41	216	4	4	Manhole	CRF ₅
41	1D	CRF ₅	47	52.5	CRF	216	4	3	Manhole	BC ₅

BASE LINE DATA FOR STATIONS LISTED ABOVE

FROM	TO	AZIMUTH	LENGTH

FROM	TO	AZIMUTH	LENGTH

BATTERY FIRE CONTROL ELEMENTS										
BATTERY <u>Cons. No. 213</u>					TACTICAL NO. <u>6</u>					
LOCATION NO. <u>41</u>					FIELD OF FIRE EXHIBIT <u>5-B-6</u>					
LOC NO.	SITE NO.	STA	ELEV	H.I.	NO. AND TYPE OF FC INSTR.	ARC OF VIEW		MEN	TYPE OF CONST.	COMB. WITH STA.
						LL	RL			
32	1C	B ¹ S ¹ F	70	119.1	DPF M2	233	87	6	Tower	B ¹ ₉
33	1D	B ² S ²	24	42.5	AI M2	222	72	6	Cottage	B ¹ ₁₁ B ³ ₃
35	1A	B ³ S ³	15	32.0	AI M2	175	9	6	Cottage	B ³ ₁ G2
41	1C	BC ₆	74	90.7	DPF M2	253	57	6	Cottage	HECP, HDOP, G2, G3, G4
46	1A	B ⁴ S ⁴	38	52.5	AI M2	300	80	6	Cottage	-
49	1A	B ⁵ S ⁵ F	18	33.3	AI M2	268	70	6	Cottage	B ⁸ ₂ , B ⁵ ₁ , G5

BASE LINE DATA FOR STATIONS LISTED ABOVE

FROM	TO	AZIMUTH	LENGTH
B ¹	B ²	276.42	10280
B ²	B ³	204.97	10989
B ³	B ⁴	258.47	17534
B ⁴	B ⁵	283.37	7157

FROM	TO	AZIMUTH	LENGTH

F Indicates Flank Station

FORM # 8

BATTERY FIRE CONTROL ELEMENTS

BATTERY <u>Dickenson</u>					TACTICAL NO. <u>7</u>					
LOCATION NO. <u>43</u>					FIELD OF FIRE EXHIBIT <u>B-B-7</u>					
LOC NO.	SITE NO.	STA	ELEV	H.I	NO. AND TYPE OF FC INSTR.	ARC OF VIEW		MEN	TYPE OF CONST.	COMB. WITH STA.
						LL	RL			
34	2C	B ¹ S ¹ F	31	38.0	AI M2	168	351	6	Cottage	B ¹ ₄ , B ¹ ₁₀
35	1D	B ² S ² F	12	32.0	AI M2	290	70	6	Cottage	B ² ₄ , P ₄
43	1B	BC ₇	86	87.6	AI M1910 A1	275	85	4	Concrete	CRF ₇
43	1B	CRF ₇	86	90.9	CRF	286	74	3	Concrete	BC ₇

BASE LINE DATA FOR STATIONS LISTED ABOVE

FROM	TO	AZIMUTH	LENGTH
B ¹	B ²	208.01	8898

FROM	TO	AZIMUTH	LENGTH

F Indicates Flank Station

FORM # 8

BATTERY FIRE CONTROL ELEMENTS										
BATTERY <u>Crittenden</u>						TACTICAL NO. <u>8</u>				
LOCATION NO. <u>43</u>						FIELD OF FIRE EXHIBIT <u>5-D-8</u>				
LOC NO.	SITE NO.	STA	ELEV	H.I.	NO. AND TYPE OF FC INSTR	ARC OF VIEW		MEN	TYPE OF CONST.	COMB. WITH STA.
						LL	RL			
43	1C	BC ₈	92	95.7	AI M19-10A1	310	45	4	Concrete	CRF ₈
43	1C	CRF ₈	92	95.7	CRF	310	45	3	Concrete	BC ₈

BASE LINE DATA FOR STATIONS LISTED ABOVE

FROM	TO	AZIMUTH	LENGTH

FROM	TO	AZIMUTH	LENGTH

FORM # 8

LOC NO.	SITE NO.	STA	ELEV	H. I.	NO AND TYPE OF FC INST	ARC OF VIEW		MEN	TYPE OF CONST.	COMB. WITH STA.
						LL	RL			
32	1C	B ¹ S ¹ F	70	133.1	DPF M2	233	87	6	Tower	B ₆ ¹
33	1C	B ² S ²	26	47.0	AI M2	250	97	6	Cottage	B _{1,BC} ² ₃
35	1C	B ³ S ³	15	38.5	AI M2	72	61	6	Cottage	B _{10,B} ² ₁₁
46	1B	B ⁴ S ⁴	40	61.0	AI M2	300	65	6	Barn	B ₂ ⁷
47	1B	BC ₉	70	70.1	AI M19-10A1	255	77	4	Concrete	-
49	1B	B ⁵ S ⁵	26	45.0	AI M2	278	98	6	Cottage	D _{10,B} ⁴ ₁₁ C3
50	1D	B ⁶ S ⁶	16	56.0	AI M2	251	91	6	Tower	B ₁₁ ⁵
57	1D	B ⁷ S ⁷	133	129.1	DPF M2	310	130	6	Manhole	-
59	1A	B ⁸ S ⁸ F	141	142.0	DPF M2	330	227	6	Manhole	-
60	3C	B ⁹ S ⁹	186	188.4	DPF M2	190	60	6	Cottage	B _{2,B} ^{5*} ₁₂ ^{14*}
60	4A	B ¹⁰ S ¹⁰	142	155.7	DPF M2	200	340	6	Silo	B _{3,B} ⁶ ₂ ^{6*}

BASE LINE DATA FOR STATIONS LISTED ABOVE

FROM	TO	AZIMUTH	LENGTH
B ¹	B ²	276.68	10201
B ²	B ³	205.43	11251
B ³	B ⁴	258.93	17447
B ⁴	B ⁵	283.94	6817
B ⁵	B ⁶	256.53	12656

FROM	TO	AZIMUTH	LENGTH
B ⁶	B ⁷	310.69	12166
B ⁷	B ⁸	313.14	12715
B ⁸	B ⁹	70.46	70440
B ⁹	B ¹⁰	181.05	6927

* Long Island Sound
F Indicates Flank Station

- 20 -

FORM # 8

BATTERY FIRE CONTROL ELEMENTS										
BATTERY <u>Reilly</u> LOCATION NO. <u>47A</u>					TACTICAL NO. <u>10</u> FIELD OF FIRE EXHIBIT <u>5-B-10</u>					
LOC NO.	SITE NO.	STA	ELEV	H. I.	NO AND TYPE OF FC INSTR	ARC OF VIEW		MEN	TYPE OF CONST.	COMB. WITH STA.
						LL	RL			
34	2C	B ¹ S ¹ F	31	45.0	AI M2	189	12	6	Cottage	B ¹ ₄ , B ¹ ₇
35	1C	B ² S ²	15	30.0	AI M2	209	45	6	Cottage	B ³ ₉ , B ² ₁₁
46	1C	B ³ S ³	39	62.0	AI M2	267	98	6	Silo	B ⁴ ₁ , B ³ ₁₁
47A	2C	BC ₁₀	62	67.9	AI 1910 A1	268	72	4	Concrete	-
49	1B	B ⁴ S ⁴	26	38.0	AI M2	286	121	6	Cottage	B ⁵ ₉ , B ⁴ ₁₁ C3
50	1B	B ⁵ S ⁵	14	26.5	AI M2	281	109	6	Cottage	B ⁶ ₁
57	1E	B ⁶ S ⁶ F	137	133.0	DPF M2	305	105	6	Manhole	-

BASE LINE DATA FOR STATIONS LISTED ABOVE

FROM	TO	AZIMUTH	LENGTH
B ¹	B ²	207.45	8822
B ²	B ³	258.95	17464
B ³	B ⁴	283.99	6792
B ⁴	B ⁵	256.43	12634
B ⁵	B ⁶	310.58	12229

FROM	TO	AZIMUTH	LENGTH

F Indicates Flank Station

FORM # 8

BATTERY FIRE CONTROL ELEMENTS										
BATTERY Cons. No. 212					TACTICAL NO. 11					
LOCATION NO. 48					FIELD OF FIRE EXHIBIT 5-B-11					
LOC NO.	SITE NO.	STA	ELEV	H.I.	NO. AND TYPE OF FC INSTR	ARC OF VIEW		MEN	TYPE OF CONST.	COMB. WITH STA.
						LL	RL			
33	1D	B ¹ S ¹ F	24	58.0	AI M2	221	25	6	Cottage	B ₃ ² , D ₆ ²
35	1C	B ² S ²	15	50.0	AI M2	245	81	6	Cottage	B ₉ ³ , B ₁₀ ²
46	1C	B ³ S ³	39	55.0	AI M2	267	98	6	Silo	B ₁ ⁴ , B ₁₀ ³
48	1B	BC ₁₁	30	57.0	AI 1910 A1	360	view	4	Cottage	-
49	1B	B ⁴ S ⁴	26	38.0	AI M2	255	90	6	Cottage	B ₉ ⁵ , D ₁₀ ⁴ , B ₁₁ ⁴
50	1D	B ⁵ S ⁵	16	49.0	AI M2	251	90	6	Tower	B ₉ ⁶
57	1B	B ⁶ S ⁶ F	139	135.0	DPF M2	340	220	6	Manhole	-

BASE LINE DATA FOR STATIONS LISTED ABOVE

FROM	TO	AZIMUTH	LENGTH
B ¹	B ²	205.10	11175
B ²	B ³	258.94	17471
B ³	B ⁴	283.98	6801
B ⁴	B ⁵	256.51	12652
B ⁵	B ⁶	310.56	12132

FROM	TO	AZIMUTH	LENGTH

F Indicates Flank Station

FORM # 8

BATTERY FIRE CONTROL ELEMENTS										
BATTERY <u>M-1 West Passage</u>					TACTICAL NO. <u>M-1</u>					
LOCATION NO. <u>40</u>					FIELD OF FIRE EXHIBIT <u>1-D</u>					
LOC NO.	SITE NO.	STA.	ELEV	H.I.	NO. AND TYPE OF FC INSTR	ARC OF VIEW		MEN	TYPE OF CONST.	COMB. WITH STA.
						LL	RL			
36	1A	M ₁ ¹ F ₁	48	46.0	AI 1910 A1	244	32	3	Manhole	-
40	1A	M ₁ ² F ₁	119	117.8	DPF M1	295	115	3	Manhole	-
40	1C	M ₁	130	130.7	AI 1910 A1	270	90	3	Manhole	M ₂

BASE LINE DATA FOR STATIONS LISTED ABOVE

FROM	TO	AZIMUTH	LENGTH
M ₁ ¹	M ₁ ²	248.29	2434

FROM	TO	AZIMUTH	LENGTH

F Indicates Flank Station

FORM # 8

BATTERY FIRE CONTROL ELEMENTS										
BATTERY <u>M-2 East Passage</u>						TACTICAL NO. <u>M-2</u>				
LOCATION NO. <u>40</u>						FIELD OF FIRE EXHIBIT <u>1-D</u>				
LOC NO.	SITE NO.	STA.	ELEV	H.I.	NO. AND TYPE OF FC INSTR	ARC OF VIEW		MEN	TYPE OF CONST.	COMB. WITH STA.
						LL	RL			
43	1D	M ₂ ¹ F	120	118.09	DPF M1	313	41	3	Manhole	-
43	1E	M ₂ ² F	44	57.9	AI 1910 A1	346	92	3	House	-
40	1C	M ₂	130	130.7	AI 1910 A1	270	90	3	Manhole	M ₁

BASE LINE DATA FOR STATIONS LISTED ABOVE

FROM	TO	AZIMUTH	LENGTH
M ₂ ¹	M ₂ ²	284.27	2001

FROM	TO	AZIMUTH	LENGTH

F Indicates Flank Station

FORM # 8

8. DATUM POINTS:

Datum Point requirements are currently under study and will be made the subject of a project letter. Exhibit 3-B showing datum point locations will be prepared and distributed upon approval of the project letter.

9. LAND ACQUISITION:

None required.

Par. 10

RADAR EQUIPMENT

SCR-296

AUTHORITY-- T O & E 4-260-1, Dated 11 April 1944, C1, C2, C3

LOC NO.	SITE NO.	ASSIGNMENTS			GROUND ELEVATION	EFFECTIVE ANTENNA HEIGHT	EXHIBIT
		PRIMARY	ADDITIONAL				
60	2C#	Cons 109	Cons 111*		145'	252.0'	4-B-3
60	3B	Hamilton	Cons 211		165'	272.0'	4-B-2
32A	1A	Cons 211	Hamilton	Cons 109	14'	121.0'	4-B-4
34	2D	House	Cons 109	Hamilton	33'	140.0'	4-B-5
41	1E	Cons 213	Reilly	Dickenson	62'	169.0'	4-B-6
45A	1B	Dickenson	House		14'	121.0'	4-B-7
45A	1C	Gray	Cons 212		14'	121.0'	4-B-8
46	1D	Reilly	Cons 213	Cons 212	37'	144.0'	4-B-9
49	1C	Cons 212	Gray		19'	126.0'	4-B-10

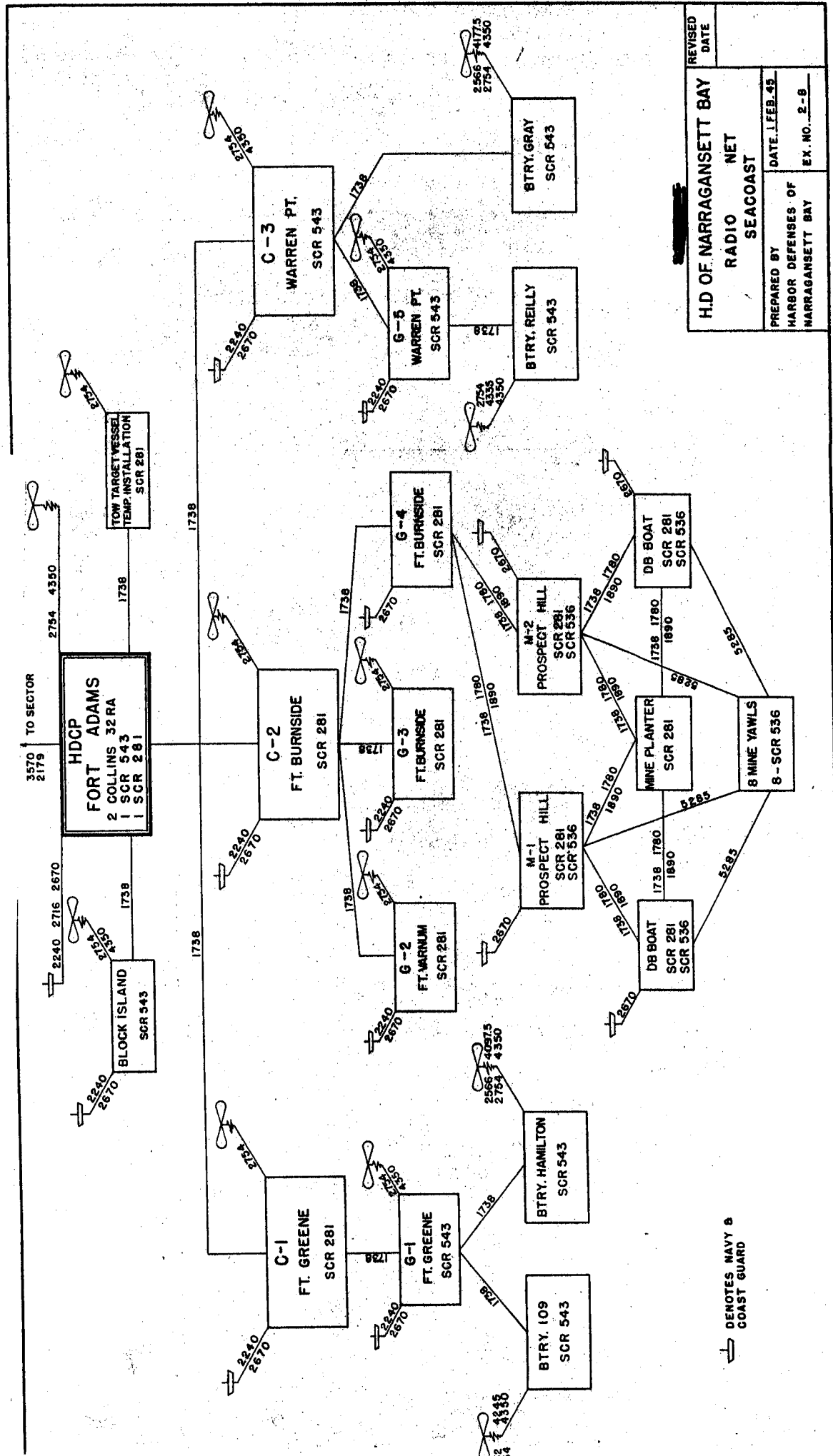
SCR-582

AUTHORITY--Letter, Hq NES, file 413.68, dated Nov. 7, 1942;
2nd Ind. Hq C of E, file 665 CM 19150 SPEOF, dated Nov. 25, 1942
and 3rd Ind, OC Sig O, file SPSRB 665.1 HD(1st Ser C)(11-7-42)
dated Dec. 2, 1942.

LOC NO.	SITE NO.	ASSIGNMENT	GROUND ELEVATION	EFFECTIVE ANTENNA HEIGHT	EXHIBIT
41	1C	HECP, C-2	74	105.5'	4-B-11

* Long Island Sound
Completion Deferred
(Set Cancelled)

FORM # 9

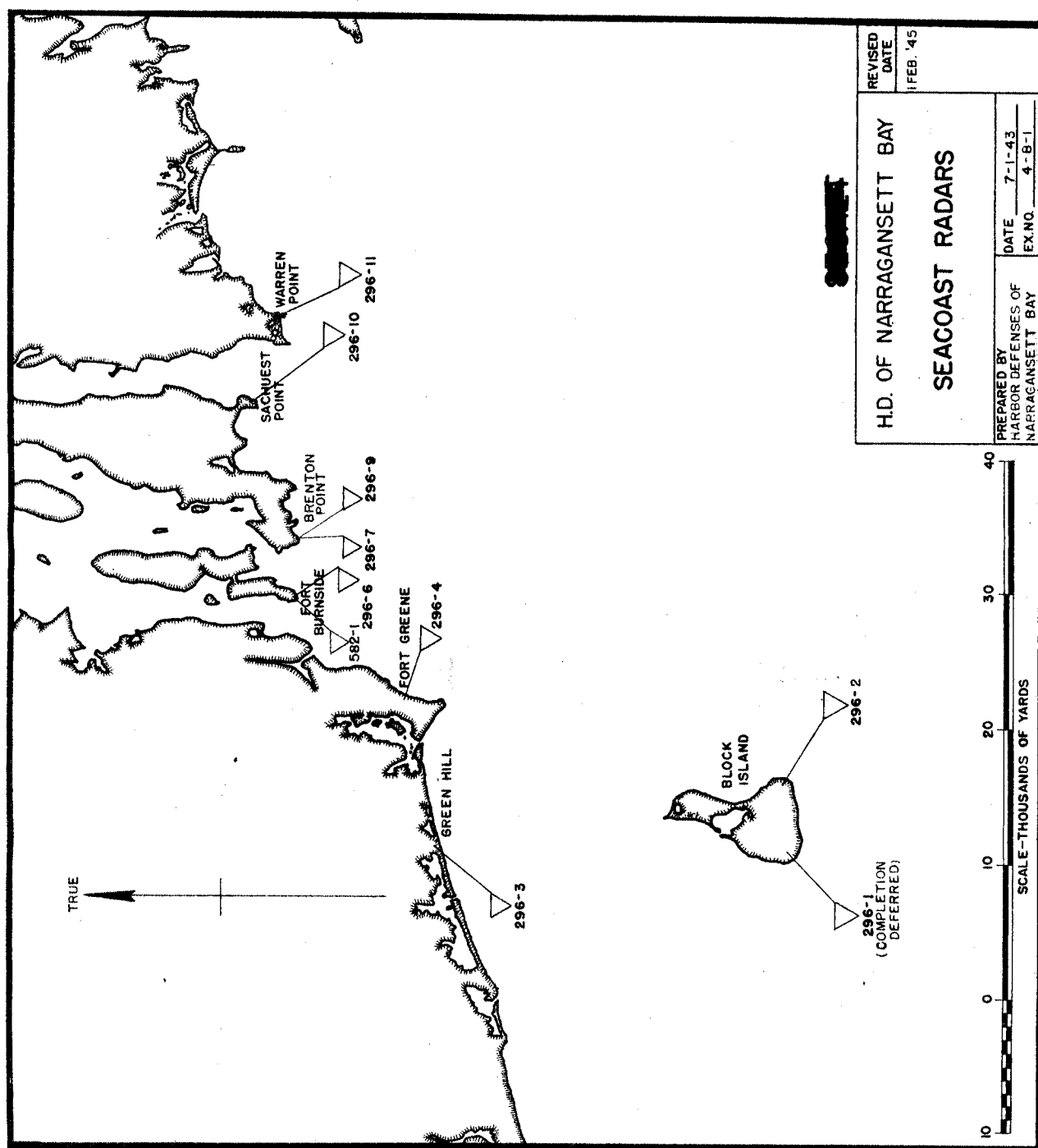


H.D. OF NARRAGANSETT BAY		REVISED DATE
RADIO NET SEACOAST		
PREPARED BY	DATE	EX. NO.
HARBOR DEFENSES OF NARRAGANSETT BAY	1 FEB. 45	2-B

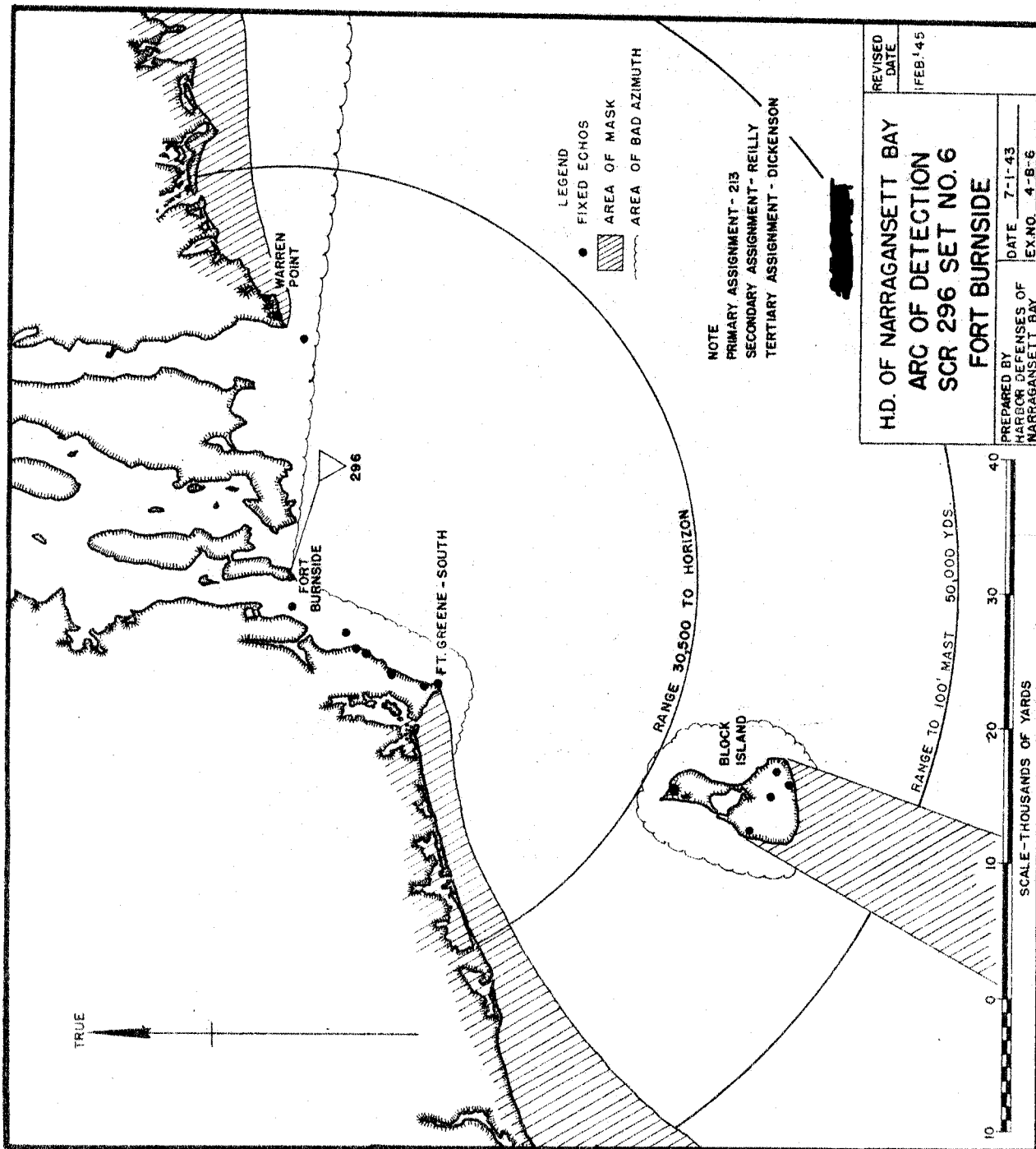
DATUM POINTS

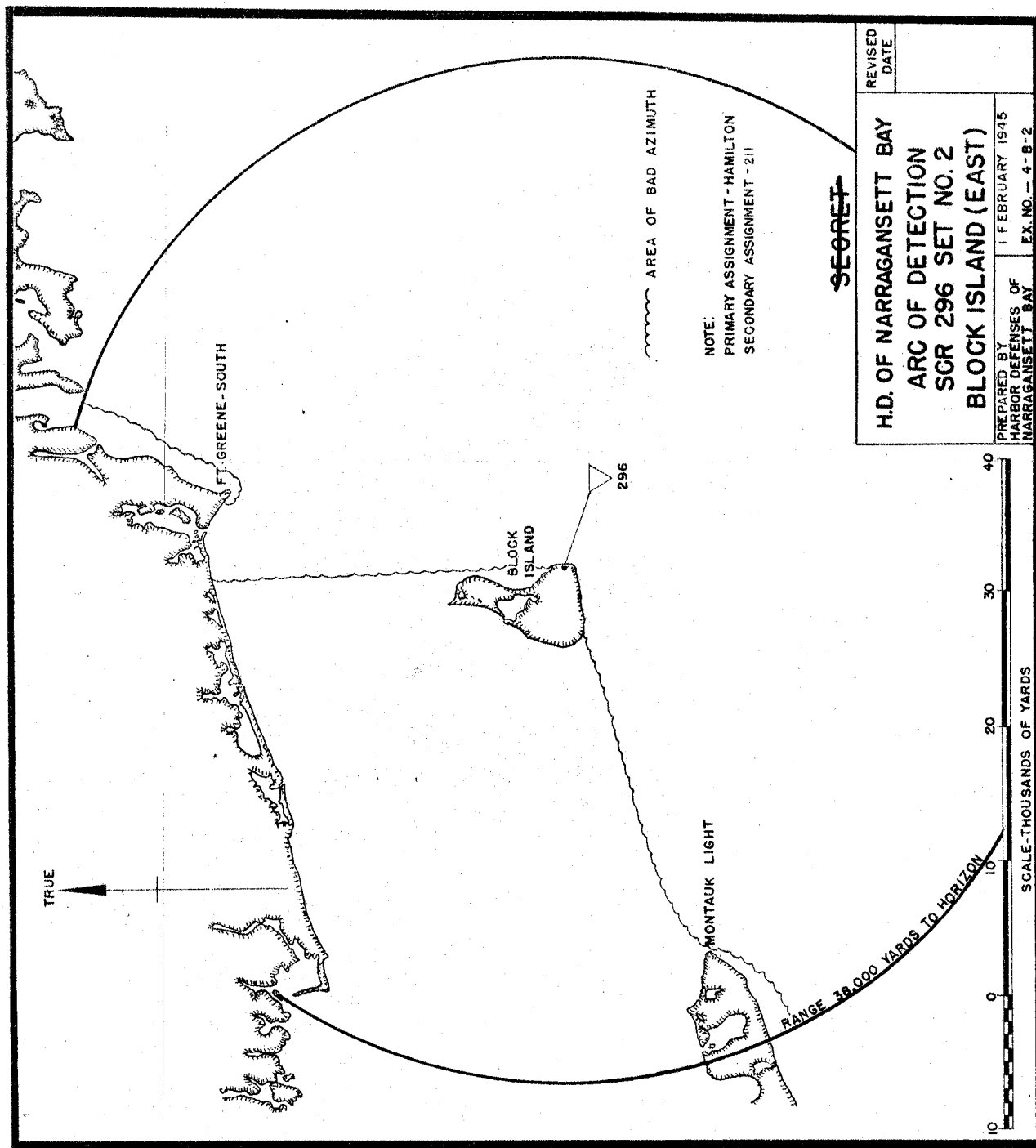
EXHIBIT 3-B

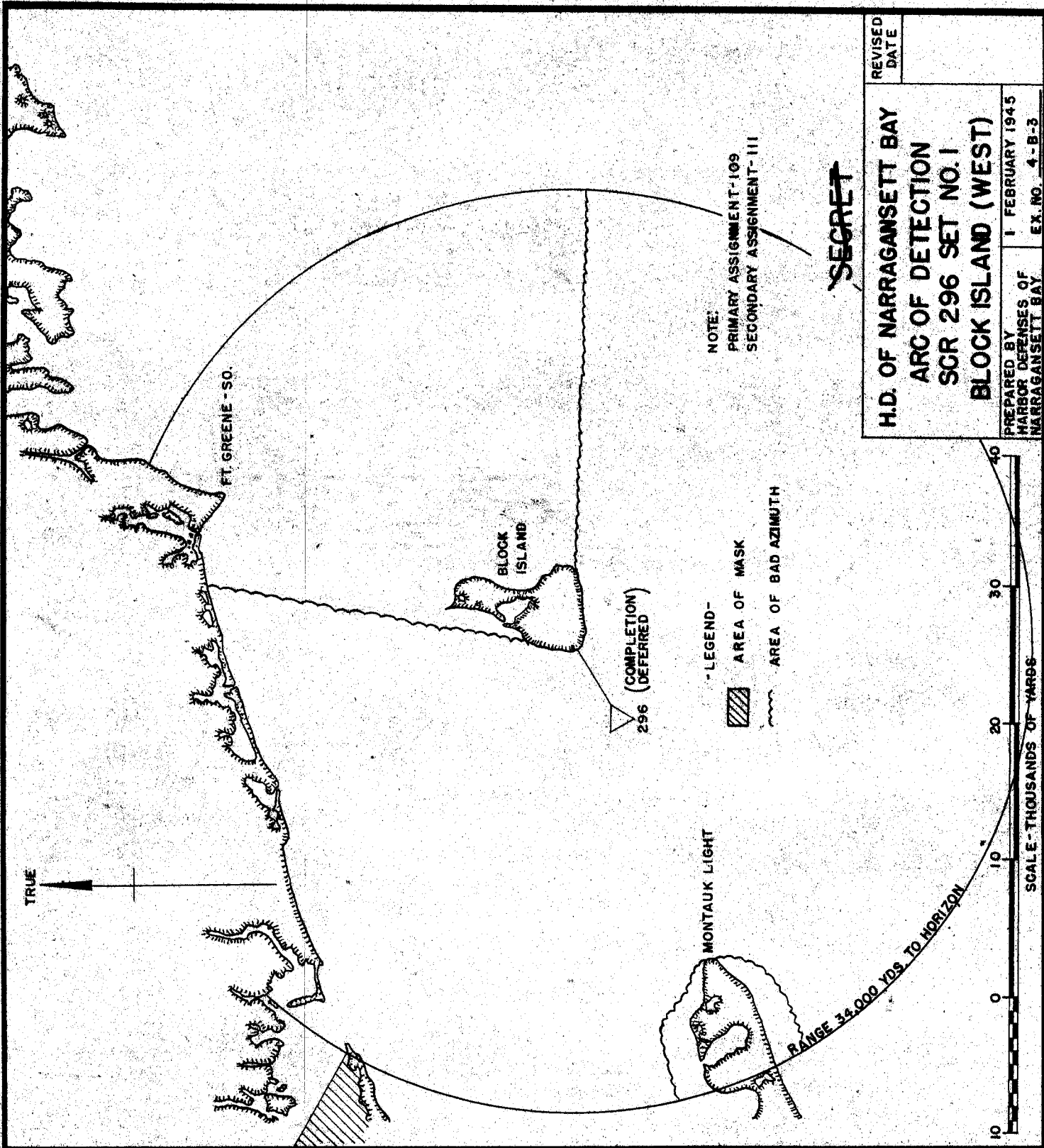
Deleted - To be made the subject of a project letter.



SECRET	
H.D. OF NARRAGANSETT BAY	
SEACOAST RADARS	
REVISED DATE 1 FEB. '45	PREPARED BY HARBOR DEFENSES OF NARRAGANSETT BAY
DATE 7-1-43	EX. NO. 4-B-1



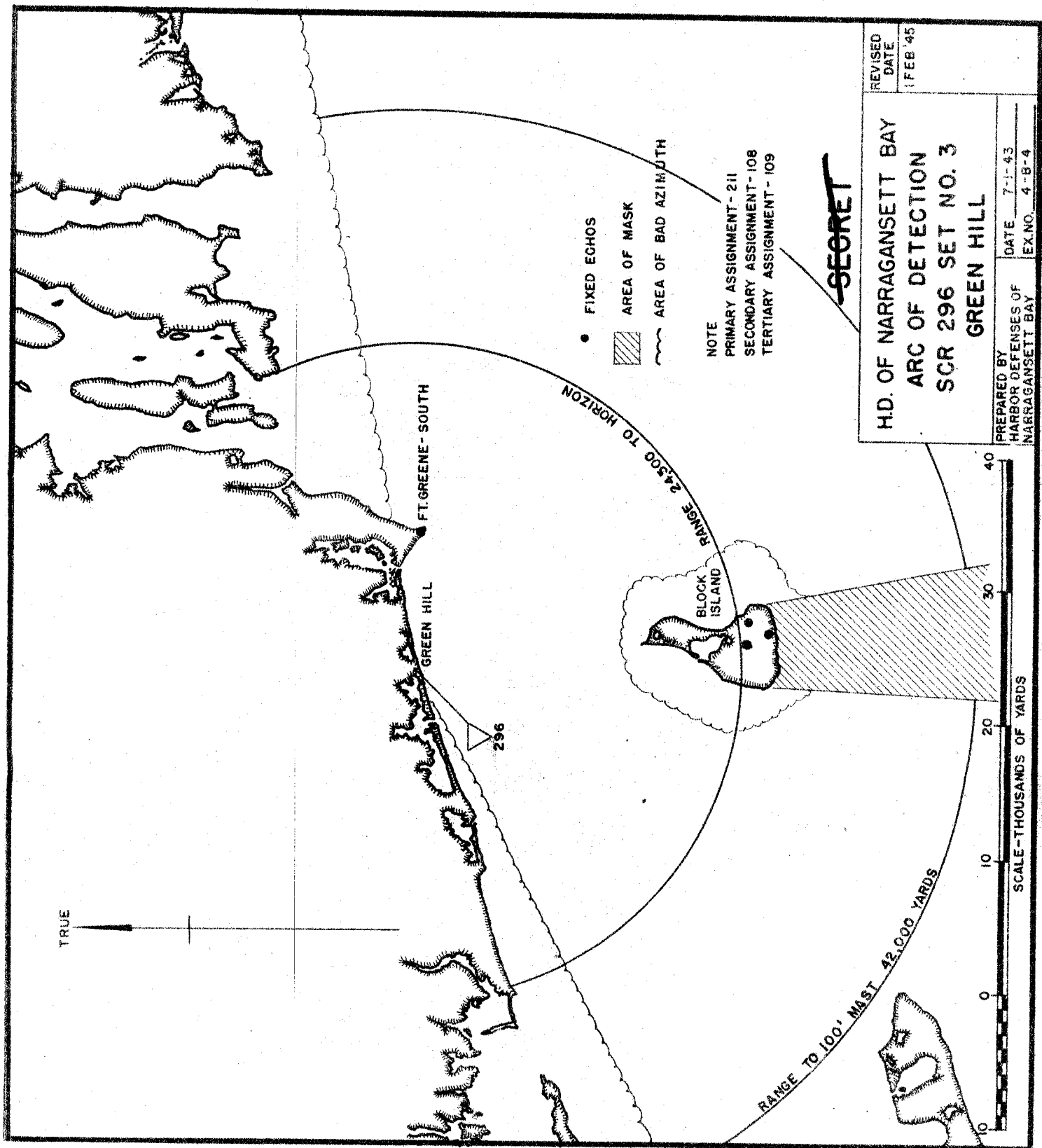




NOTE:
 PRIMARY ASSIGNMENT-109
 SECONDARY ASSIGNMENT-111

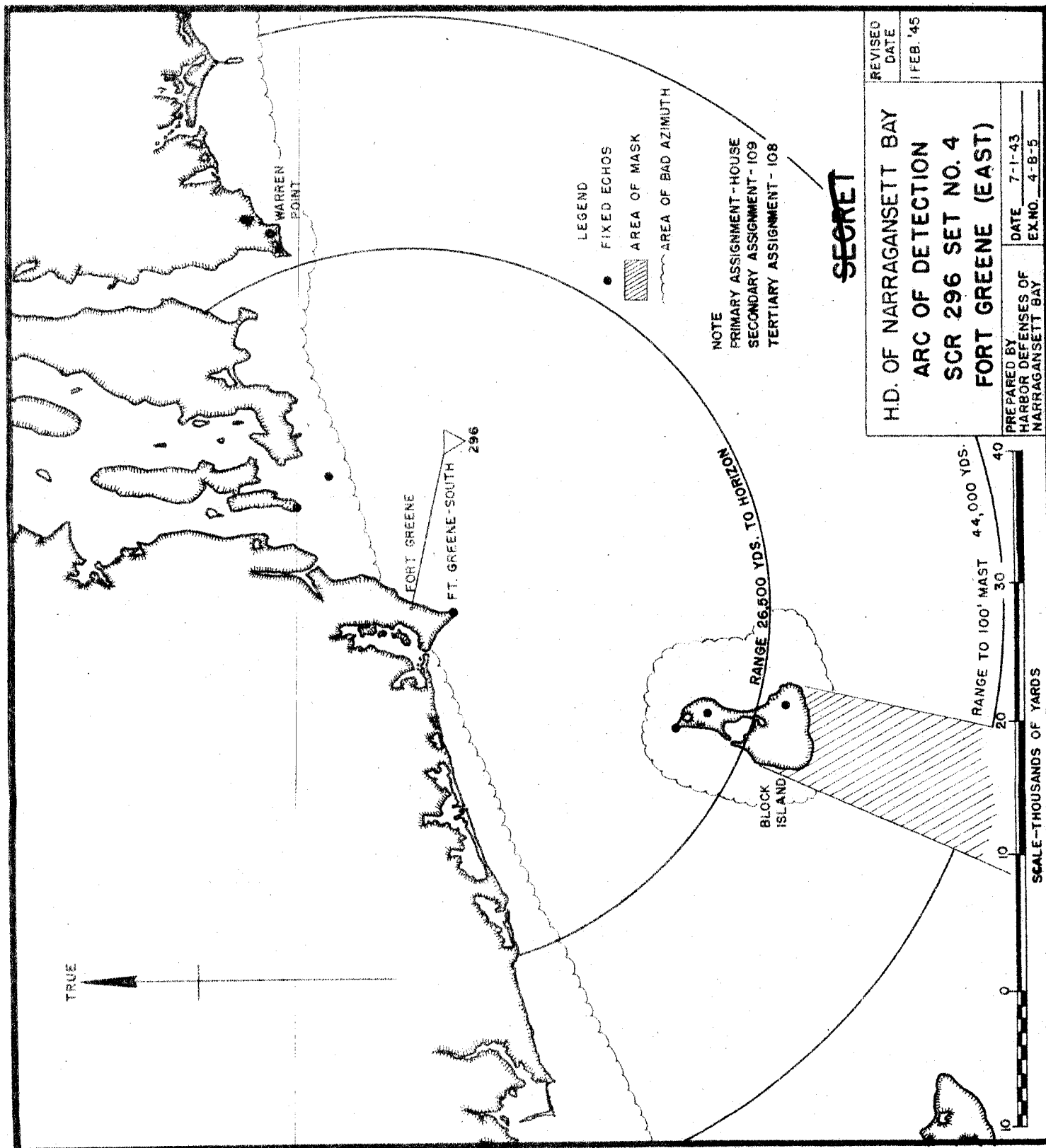
SECRET

REVISED DATE	
H.D. OF NARRAGANSETT BAY	
ARC OF DETECTION	
SCR 296 SET NO. 1	
BLOCK ISLAND (WEST)	
PREPARED BY	1 FEBRUARY 1945
HARBOR DEFENSES OF NARRAGANSETT BAY	EX. NO. 4-B-3



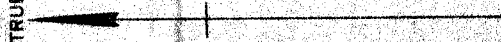
H.D. OF NARRAGANSETT BAY ARC OF DETECTION SCR 296 SET NO. 3 GREEN HILL		REVISED DATE 1 FEB '45
PREPARED BY HARBOR DEFENSES OF NARRAGANSETT BAY	DATE 7-1-43	EX. NO. 4-B-4

SECRET



REVISED DATE	11 FEB '45
SECRET	
HD. OF NARRAGANSETT BAY ARC OF DETECTION SCR 296 SET NO. 4 FORT GREENE (EAST)	
PREPARED BY HARBOR DEFENSES OF NARRAGANSETT BAY	DATE 7-1-43 EX. NO. 4-B-5

TRUE



WARREN
POINT

FORT
BURNSIDE

296

FT. GREENE - SOUTH

LEGEND

● FIXED ECHOS

▨ AREA OF MASK

~ AREA OF BAD AZIMUTH

NOTE

PRIMARY ASSIGNMENT - 213
SECONDARY ASSIGNMENT - REILLY
TERTIARY ASSIGNMENT - DICKENSON

SECRET

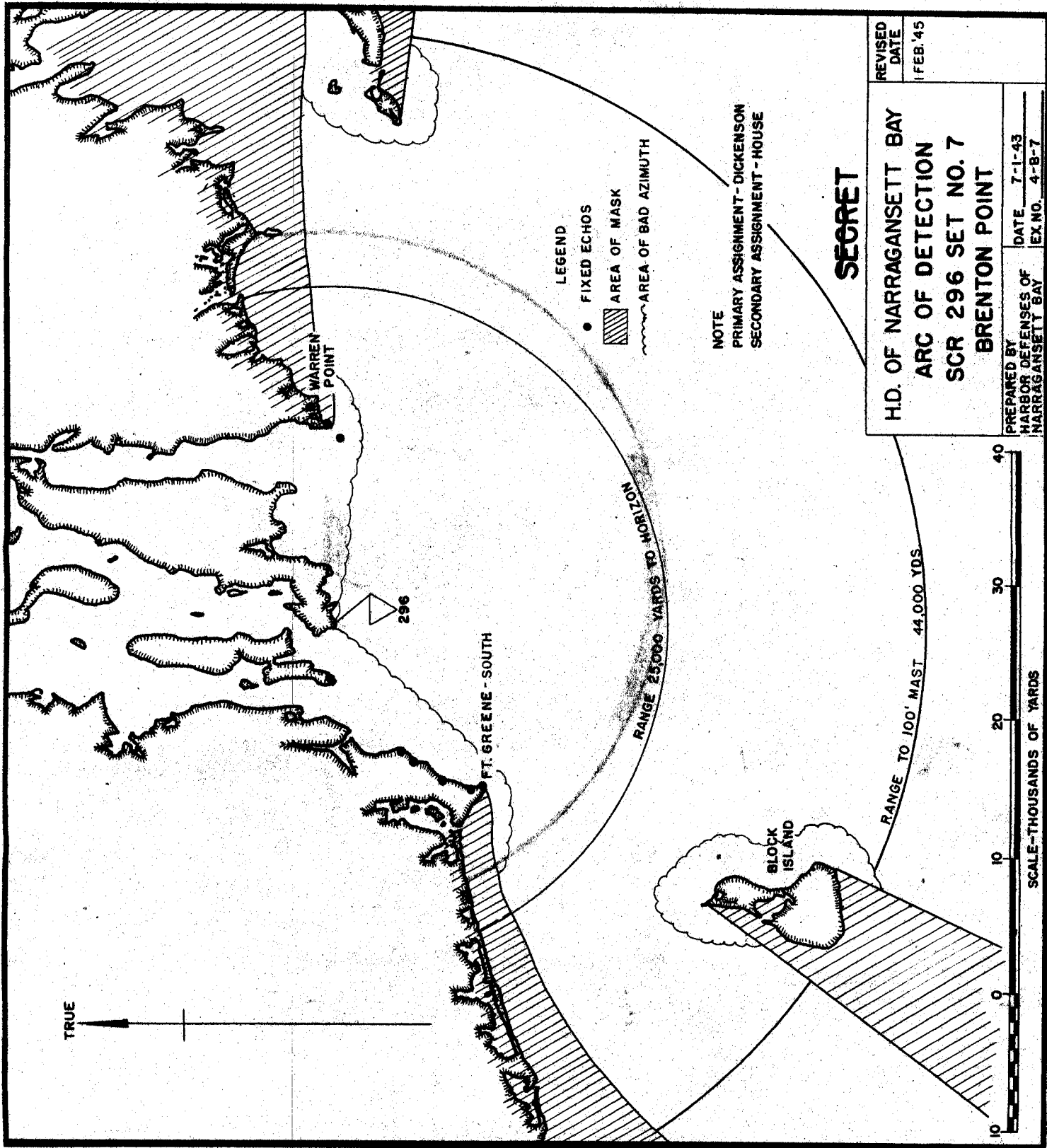
HD. OF NARRAGANSETT BAY		REVISED DATE
ARC OF DETECTION		1 FEB 145
SCR 296 SET NO. 6		
FORT BURNSIDE		
PREPARED BY	DATE	EX. NO.
HARBOR DEFENSES OF NARRAGANSETT BAY	7-1-43	4-B-6

RANGE 30,500 TO HORIZON

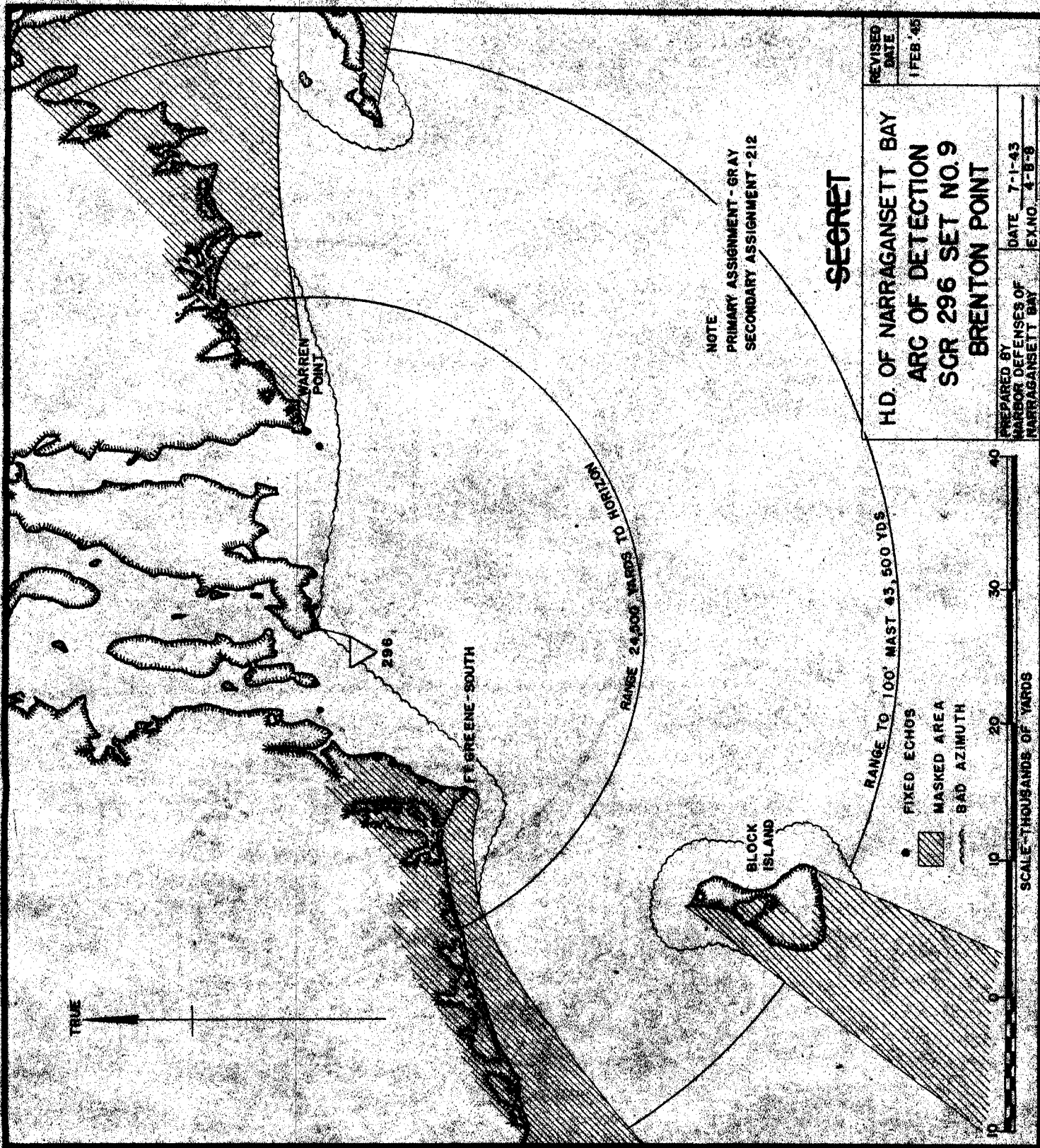
BLOCK
ISLAND

RANGE TO 100' MAST 50,000 YDS.





REVISED DATE	1 FEB. '45
SECRET	
H.D. OF NARRAGANSETT BAY ARC OF DETECTION SCR 296 SET NO. 7 BRENTON POINT	
PREPARED BY HARBOR DEFENSES OF NARRAGANSETT BAY	DATE 7-1-43 EX. NO. 4-B-7



NOTE
PRIMARY ASSIGNMENT - GRAY
SECONDARY ASSIGNMENT - 212

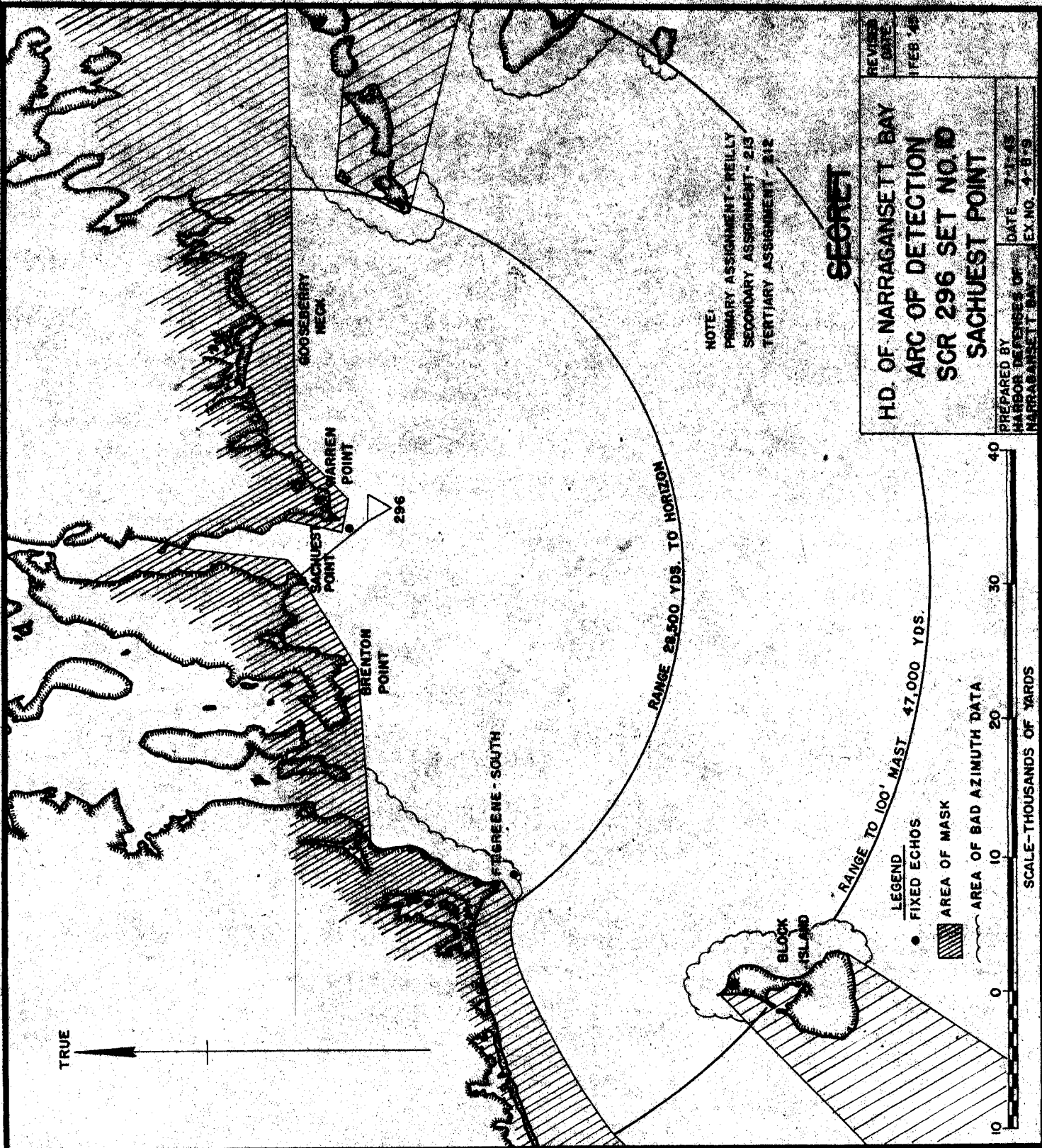
SECRET

REVISED
DATE
1 FEB '45

H.D. OF NARRAGANSETT BAY
ARC OF DETECTION
SCR 296 SET NO. 9
BRENTON POINT

PREPARED BY
HARBOR DEFENSES OF
NARRAGANSETT BAY

DATE 7-1-43
EX. NO. 4-B-8



NOTE:
 PRIMARY ASSIGNMENT - RELLY
 SECONDARY ASSIGNMENT - 213
 TERTIARY ASSIGNMENT - 212

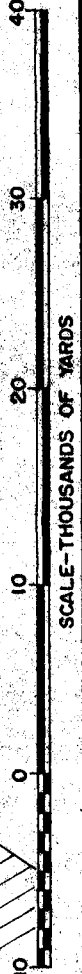
SECRET

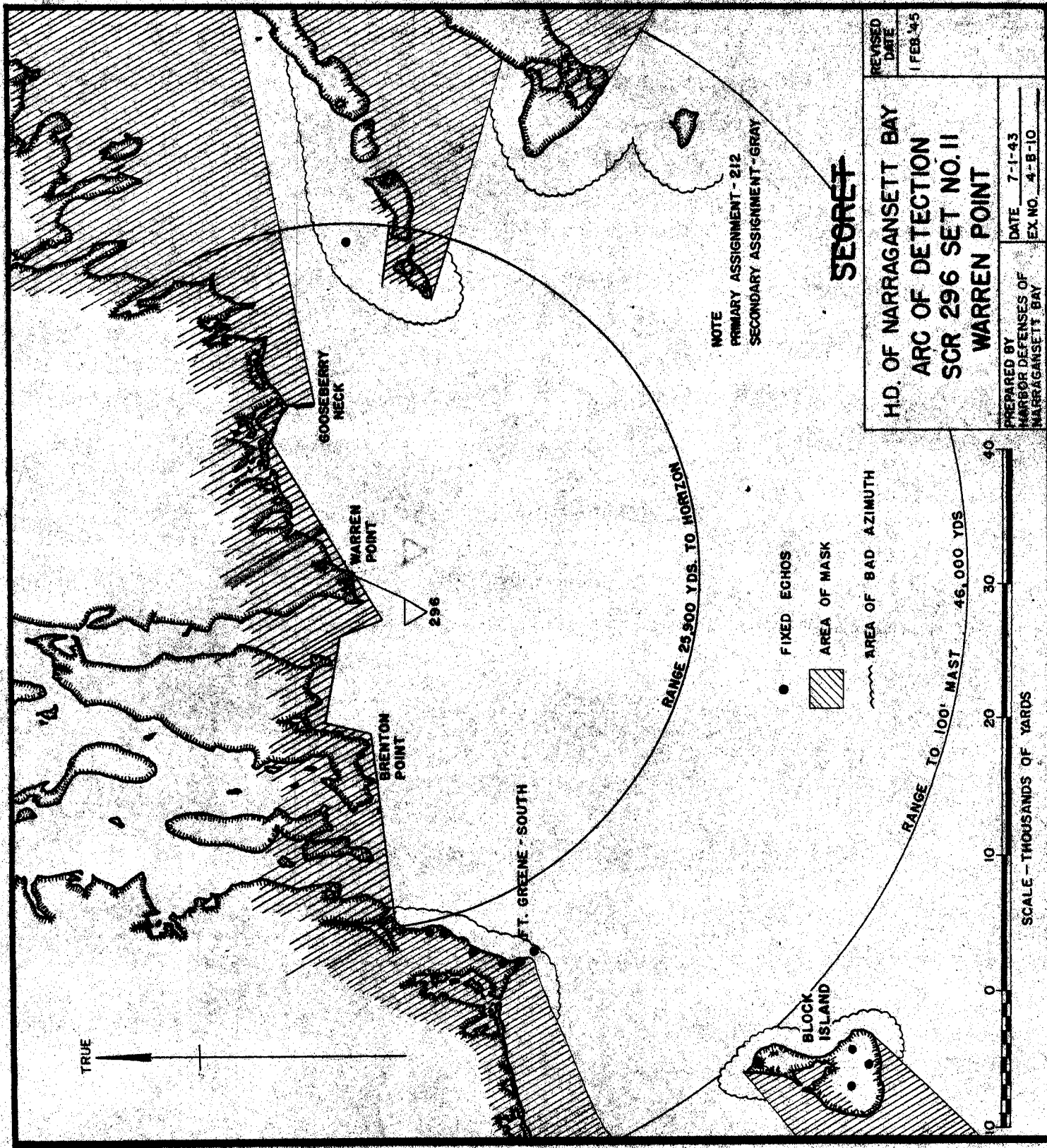
REVISED
 DATE
 1 FEB 48

H.D. OF NARRAGANSETT BAY
 ARC OF DETECTION
 SCR 296 SET NO. 10
 SACHUEST POINT

PREPARED BY
 NAVIDOR DEPT. OF
 NARRAGANSETT BAY
 DATE 7-11-48
 EX. NO. 4-B-9

LEGEND
 • FIXED ECHOS
 AREA OF MASK
 AREA OF BAD AZIMUTH DATA





SECRET

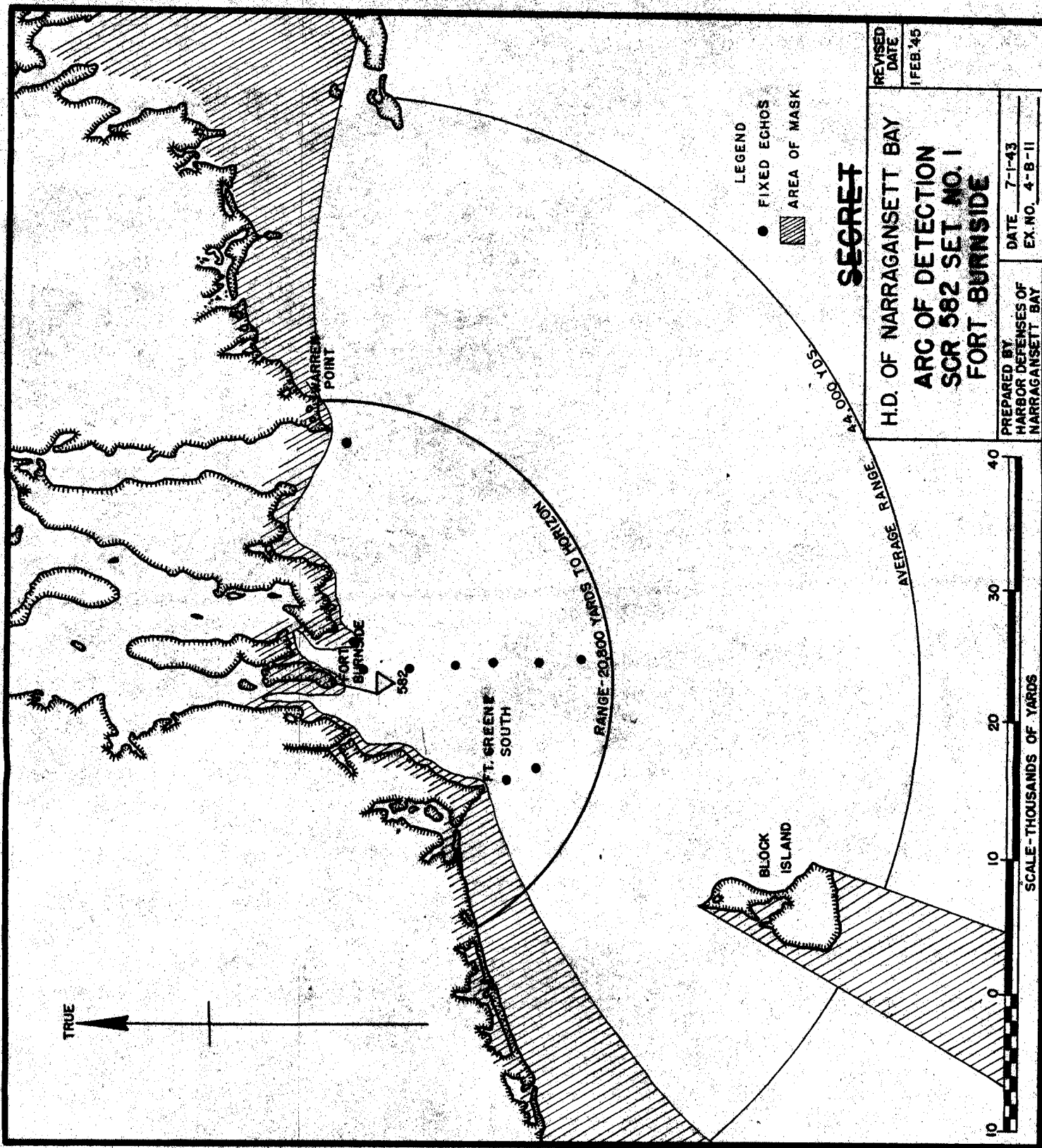
REVISED
DATE
1 FEB 45

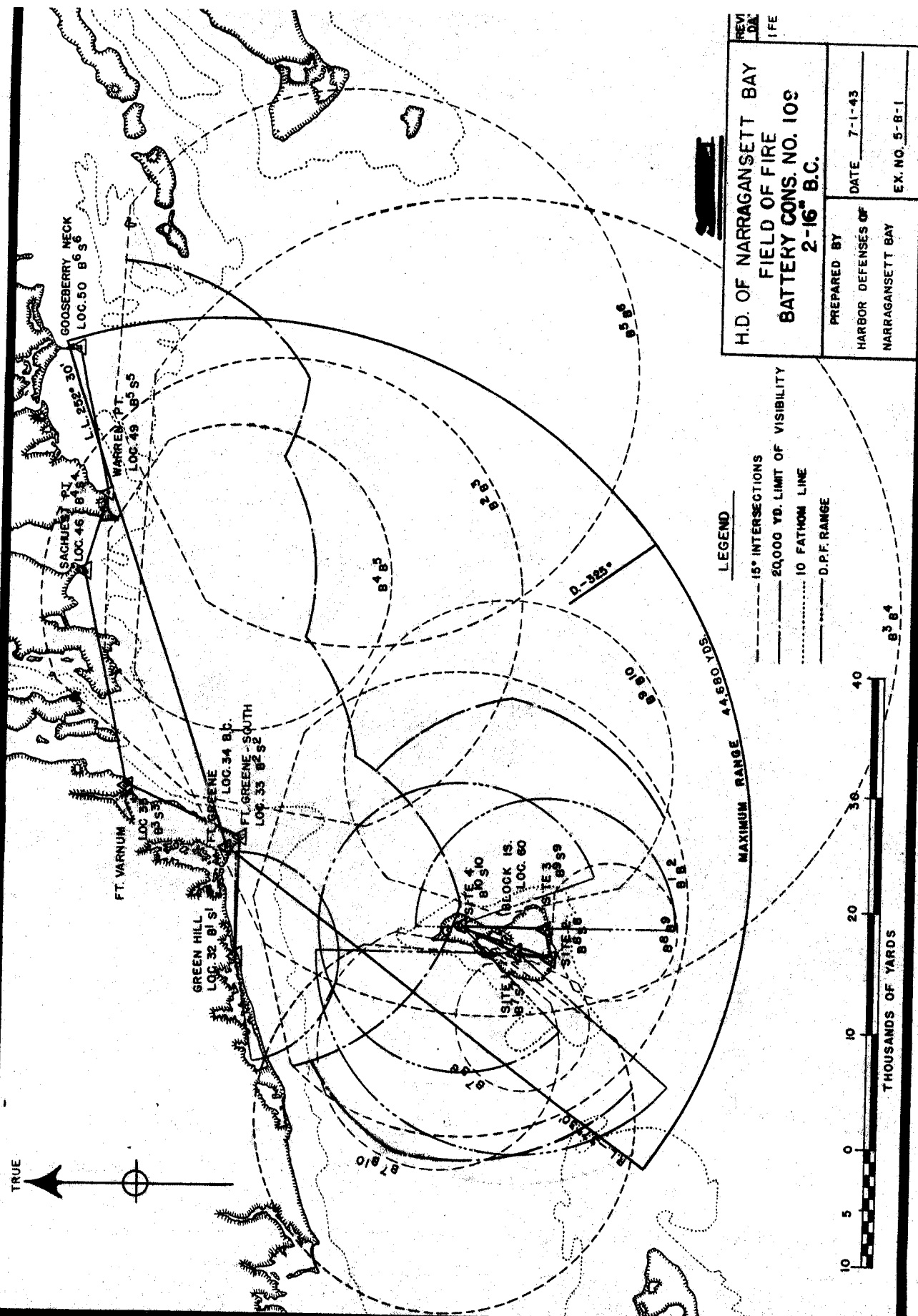
H.D. OF NARRAGANSETT BAY
ARC OF DETECTION
SCR 296 SET NO. II
WARREN POINT

PREPARED BY
HARBOR DEFENSES OF
NARRAGANSETT BAY

DATE
7-1-43

EX. NO.
4-B-10

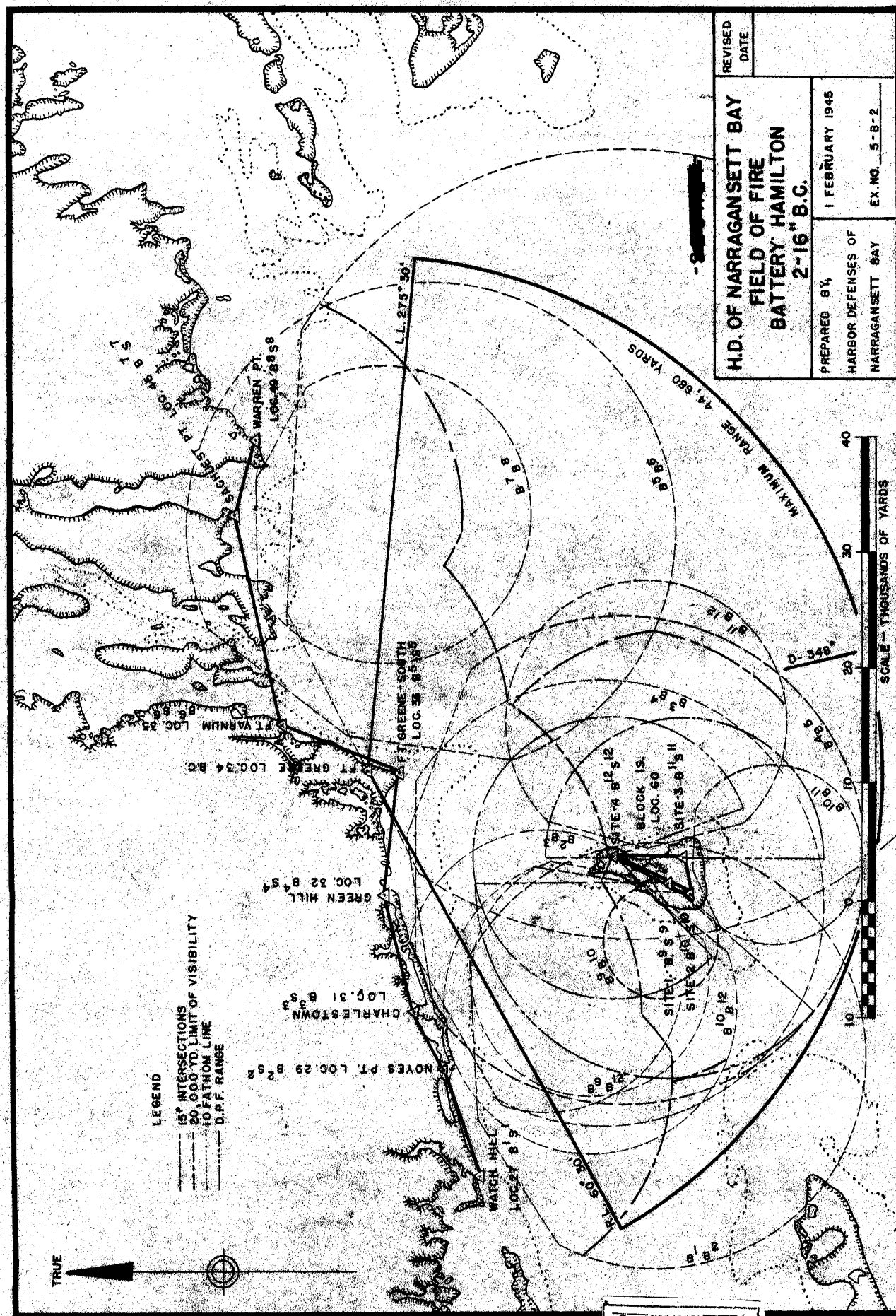


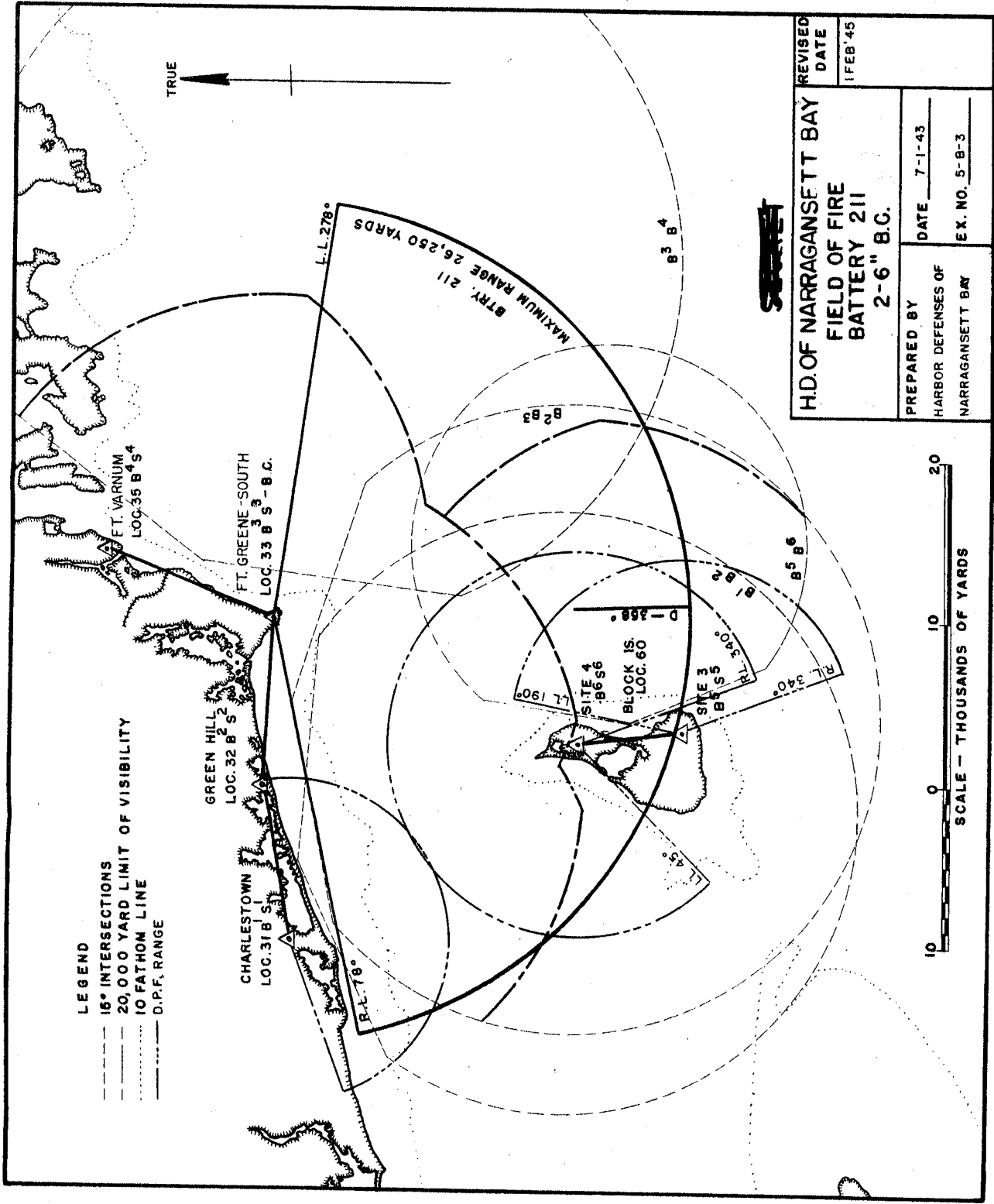


H.D. OF NARRAGANSETT BAY FIELD OF FIRE BATTERY CONS. NO. 103 2-16" B.C.		PREPARED BY HARBOR DEFENSES OF NARRAGANSETT BAY	DATE 7-1-43	EX. NO. 5-B-1
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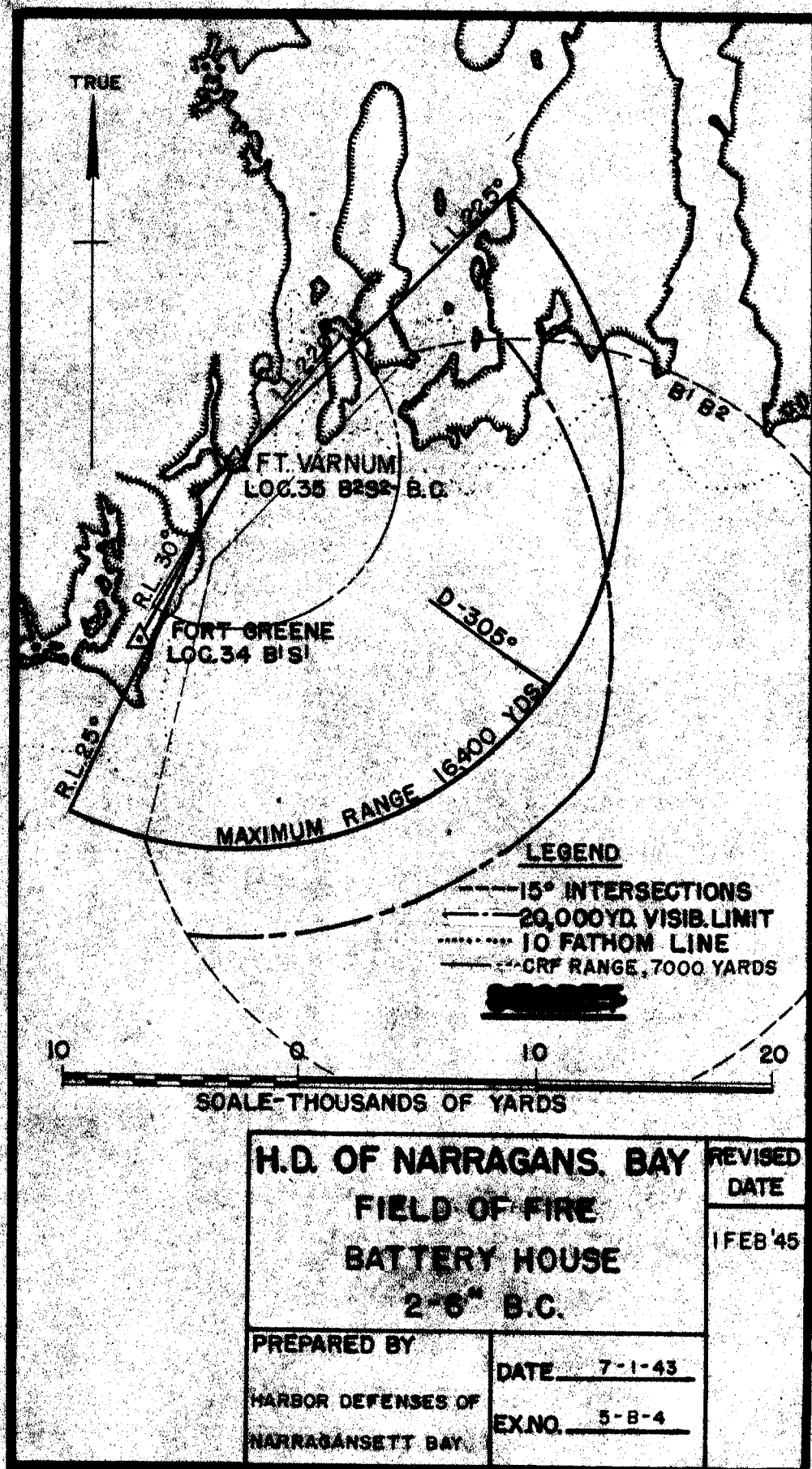
LEGEND

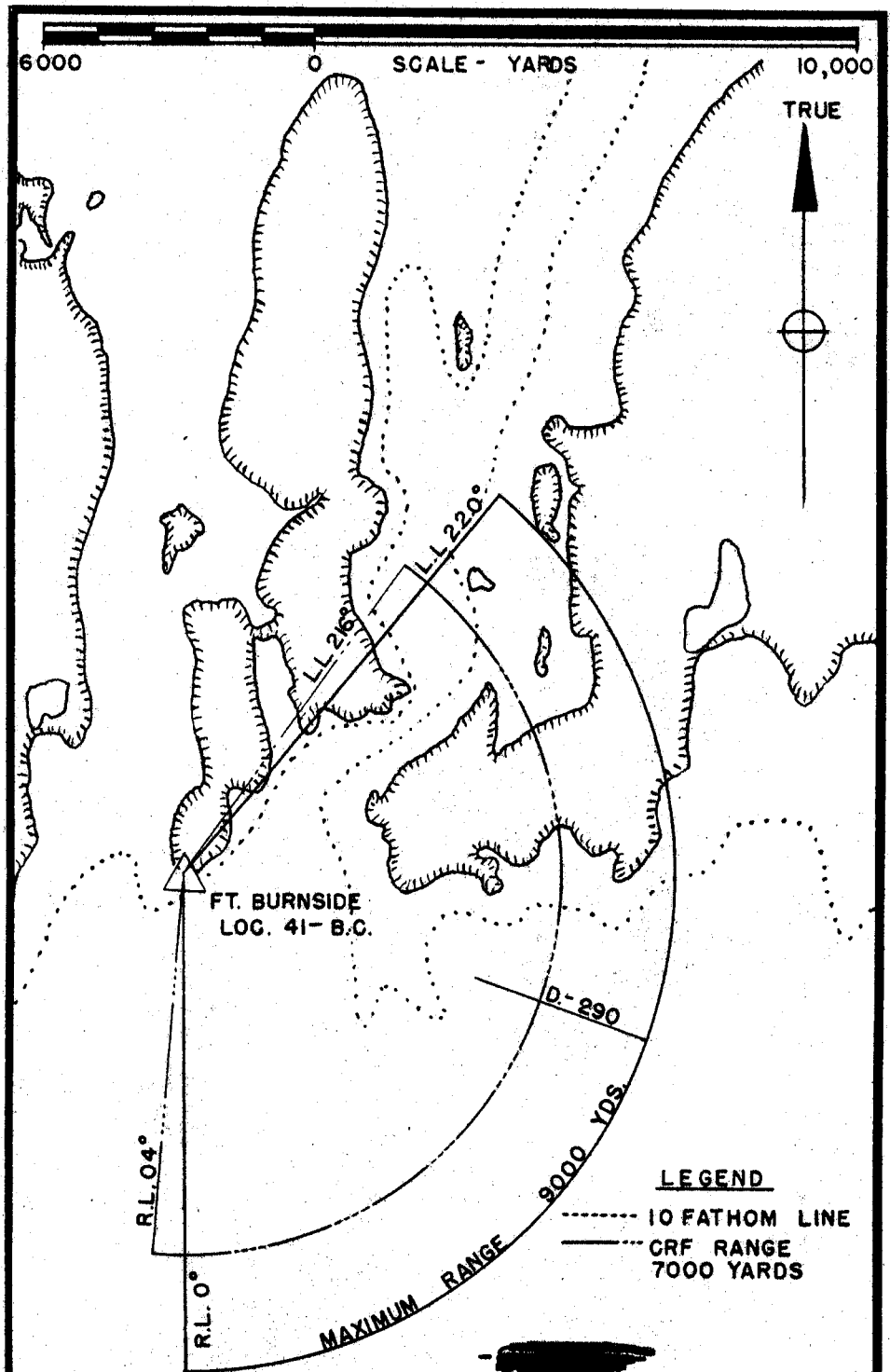
- 15° INTERSECTIONS
- 20,000 YD. LIMIT OF VISIBILITY
- 10 FATHOM LINE
- D.P.F. RANGE





H.D. OF NARRAGANSETT BAY FIELD OF FIRE BATTERY 211 2-6" B.C.	
REVISOR DATE 1 FEB '45	PREPARED BY HARBOR DEFENSES OF NARRAGANSETT BAY
DATE 7-1-43	EX. NO. 5-B-3





H.D. OF NARRAGANSETT BAY
 FIELD OF FIRE
 BATTERY WHITING
 2-3" B.C.

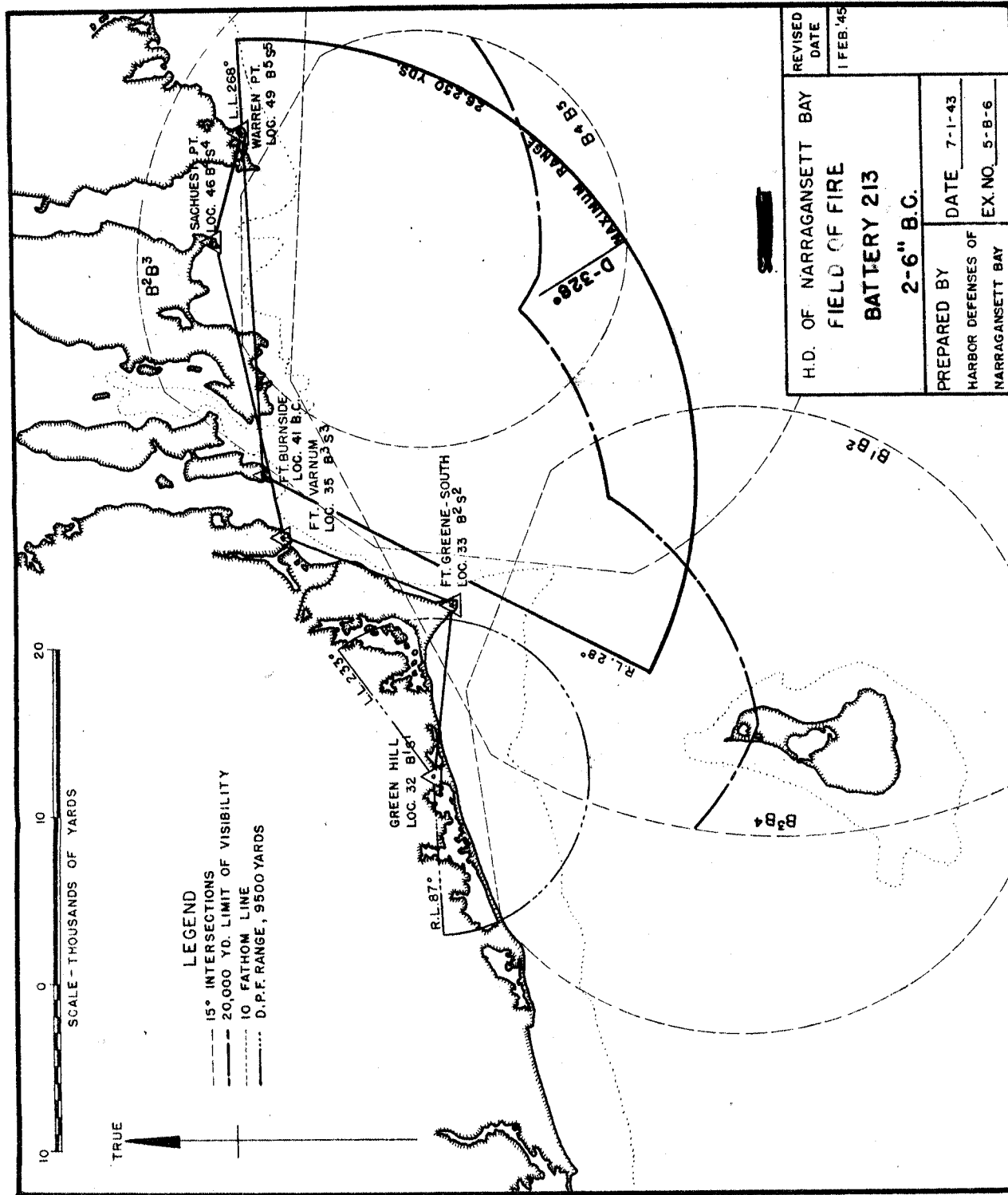
REVISED
 DATE

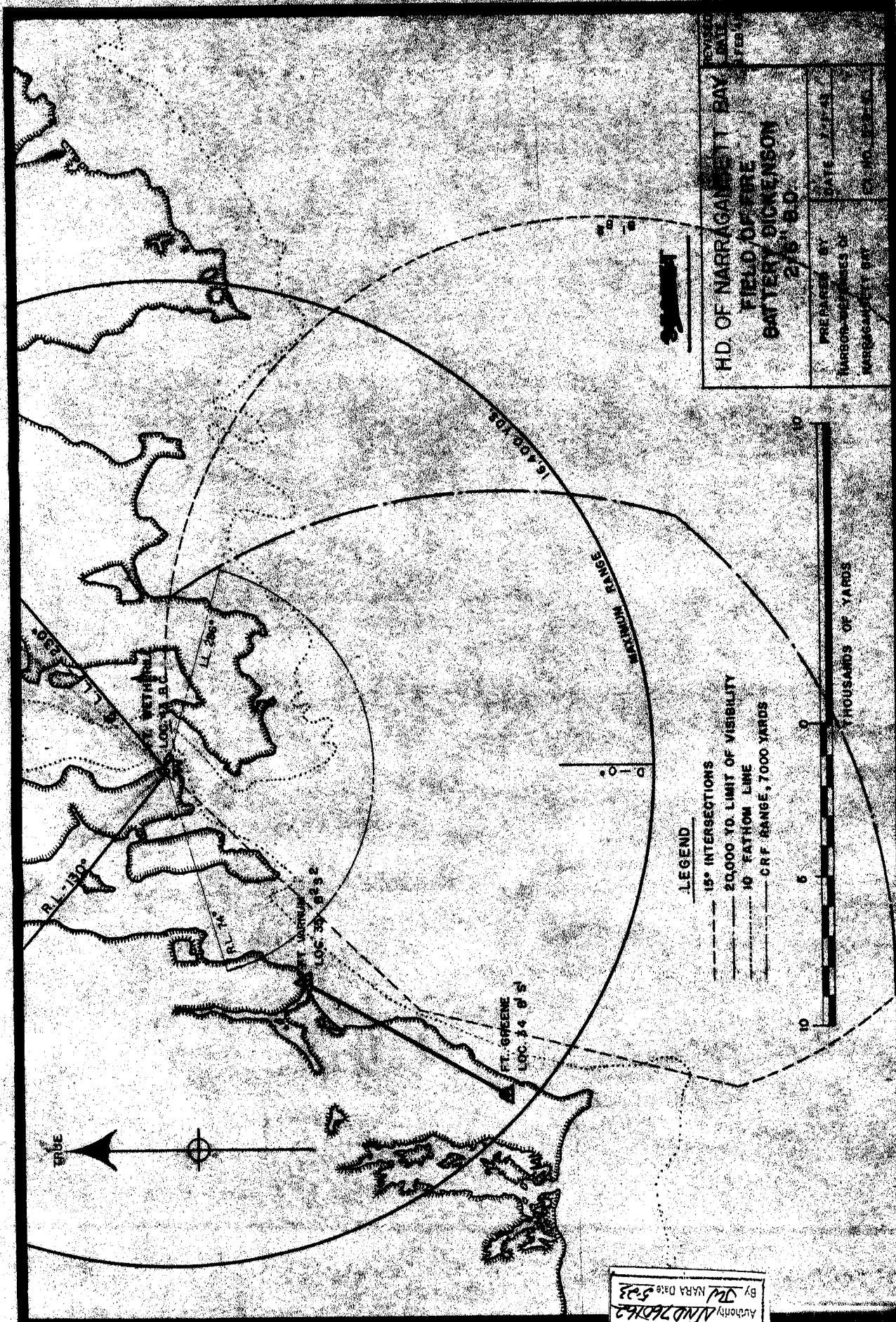
1 FEB. '45

PREPARED BY
 HARBOR DEFENSES OF
 NARRAGANSETT BAY

DATE 7-1-43

EX. NO 5-8-5



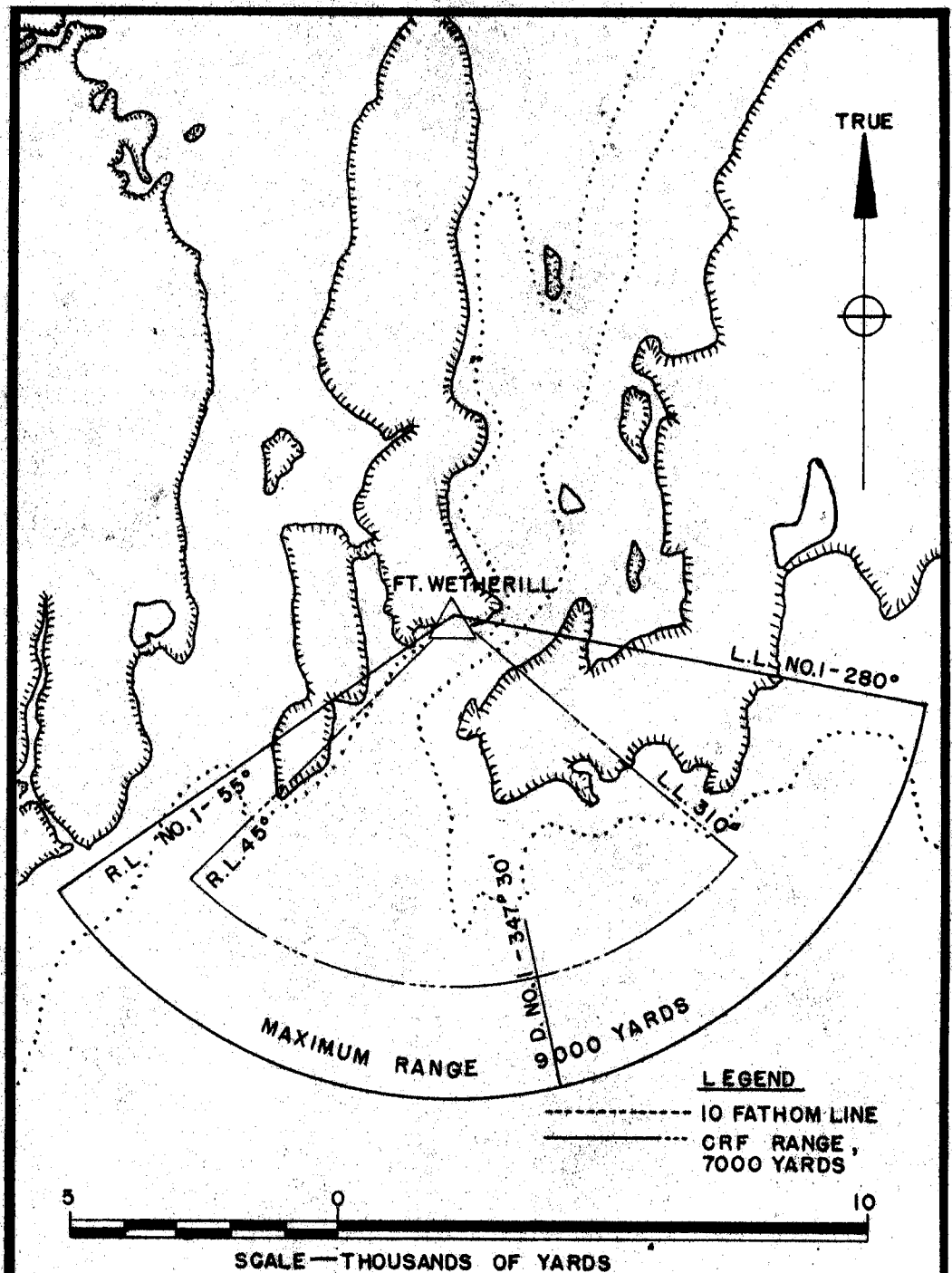


HD. OF NARRAGANSETT BAY FIELD OF FIRE BATTERY DICKENSON 276 E.D.	
PREPARED BY HARRIS-WEAVER OF NARRAGANSETT BAY	DATE 27-1-43 BY NO. 1-1-43

- LEGEND**
- 15° INTERSECTIONS
 - 20,000 YD. LIMIT OF VISIBILITY
 - 10 FATHOM LINE
 - CRF RANGE, 7000 YARDS



AUTHORITY AND 760762
 BY JWD
 NARRAGANSETT BAY
 DATE 5-23

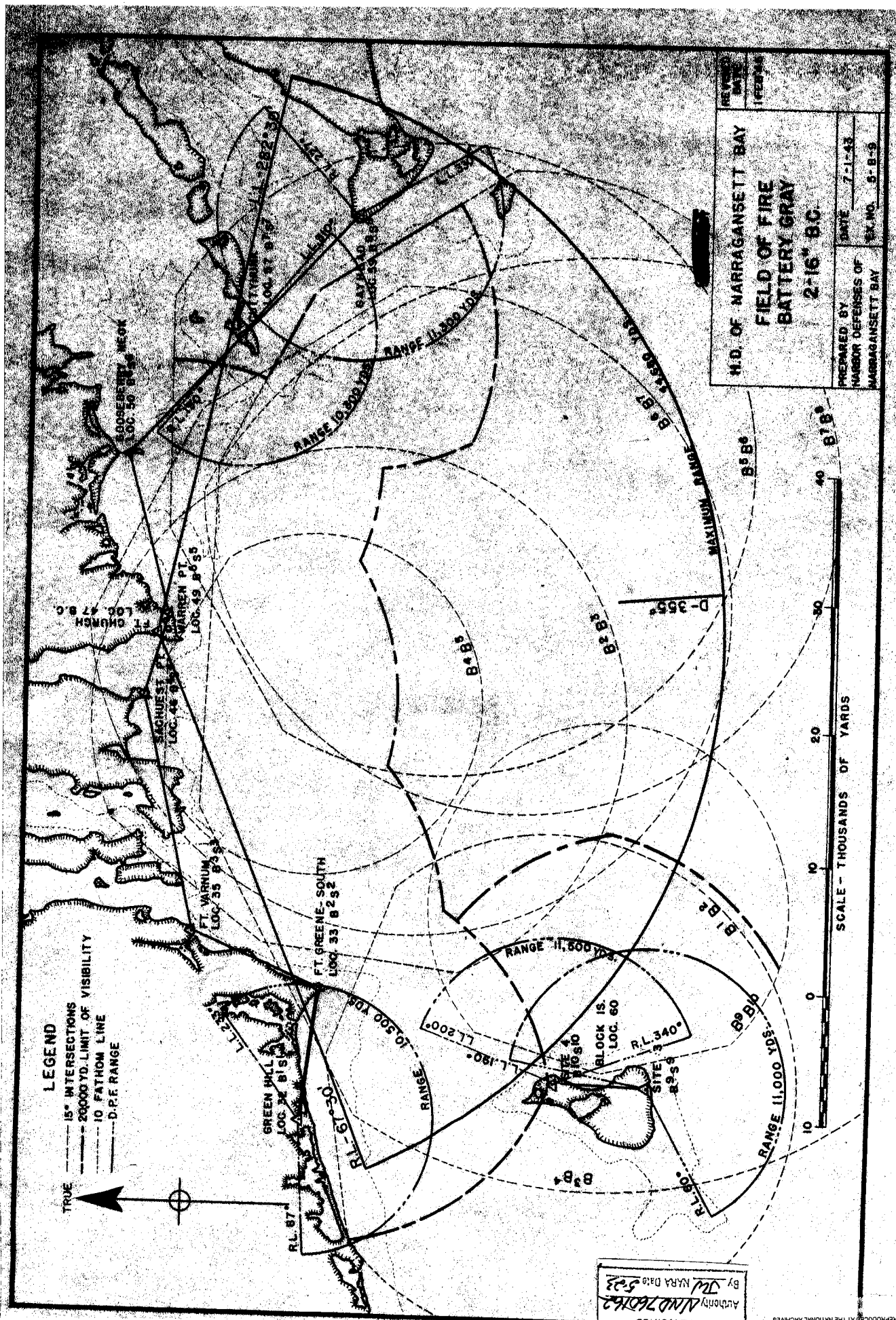


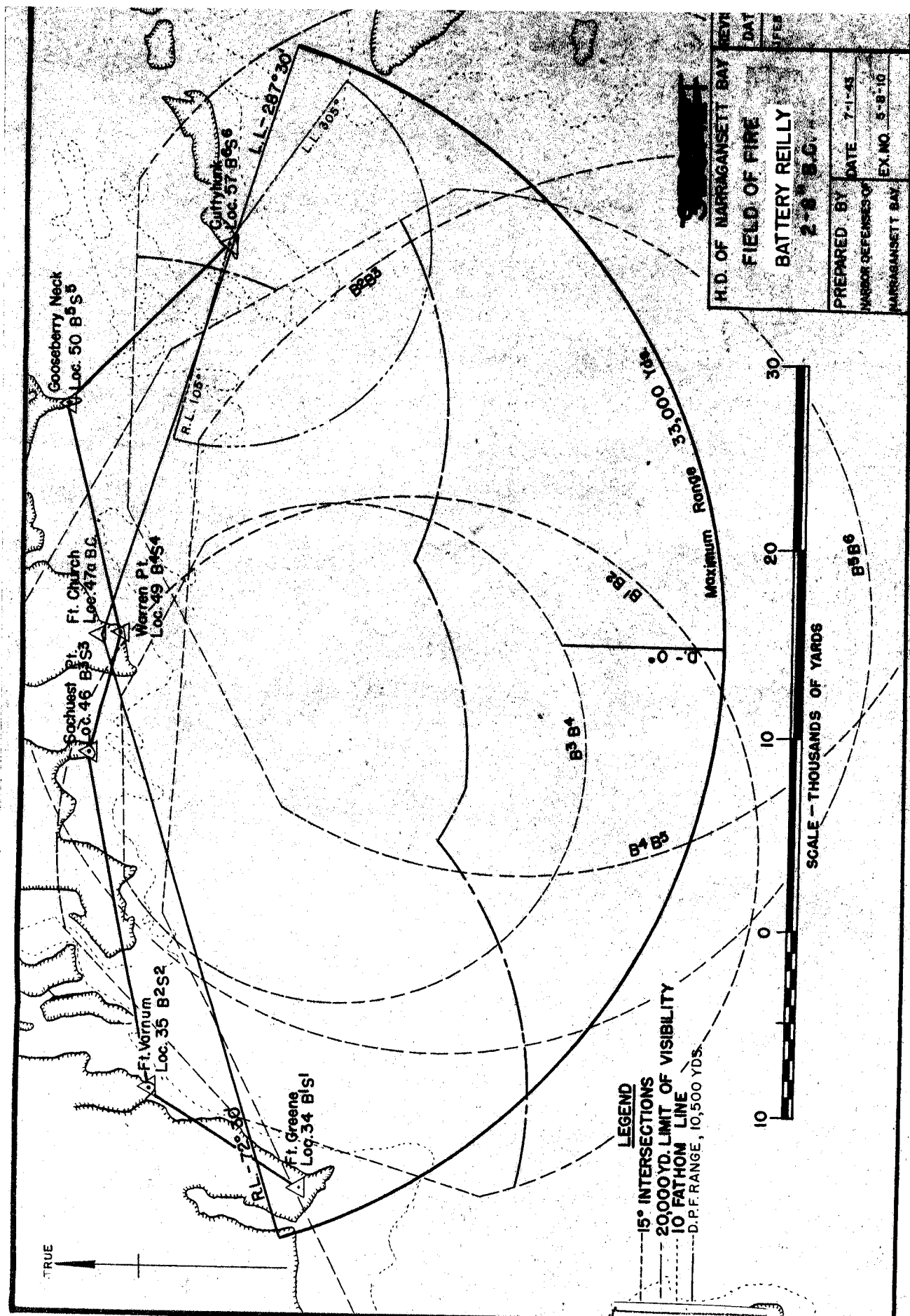
H.D. OF NARRAGANSETT BAY
FIELD OF FIRE
BATTERY CRITTENDEN
2-3" B.C.

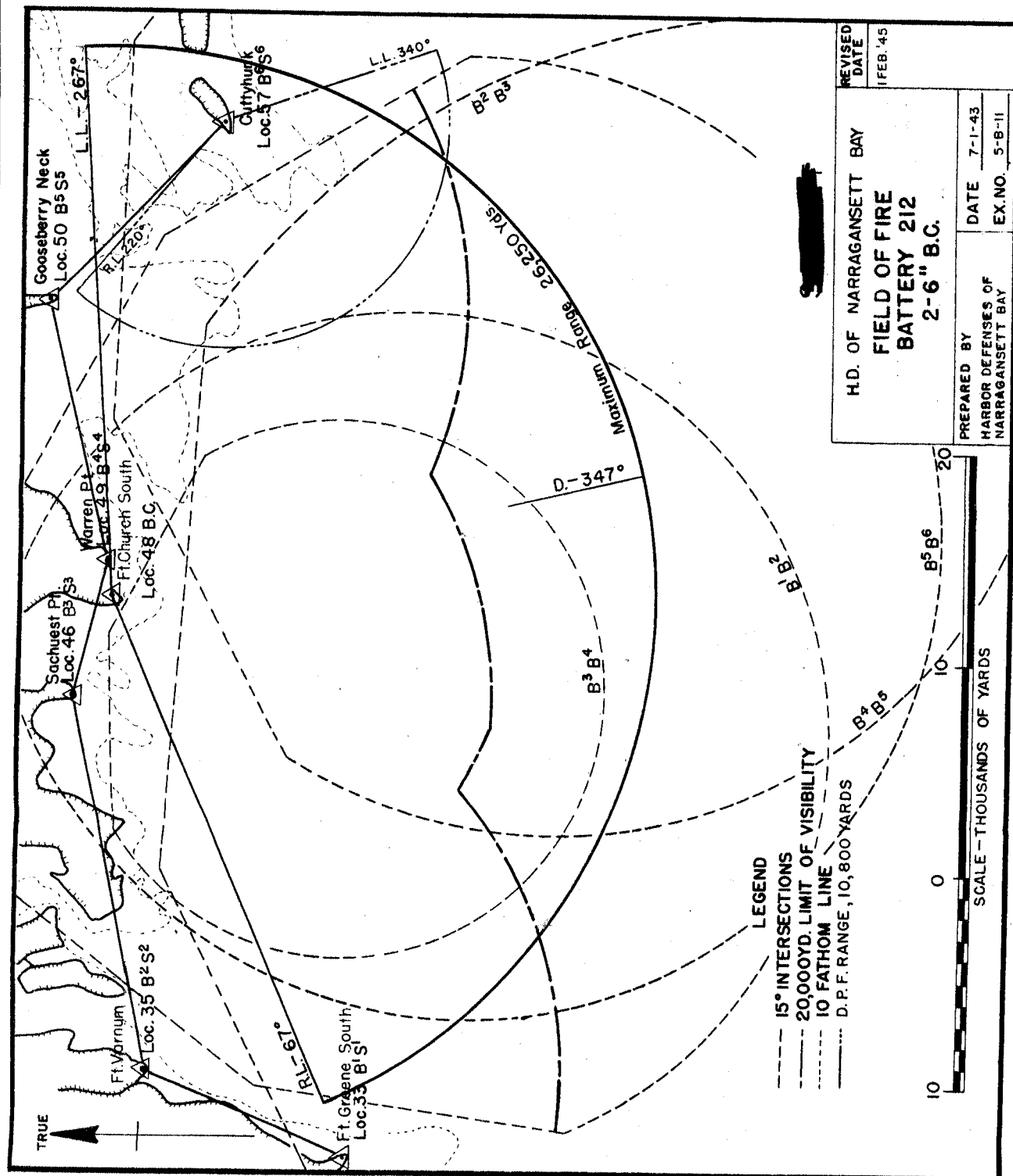
REVISED
DATE
1 FEB. 1945

PREPARED BY
HARBOR DEFENSES OF
NARRAGANSETT BAY

DATE 7-1-43
EX. NO. 5-B-8



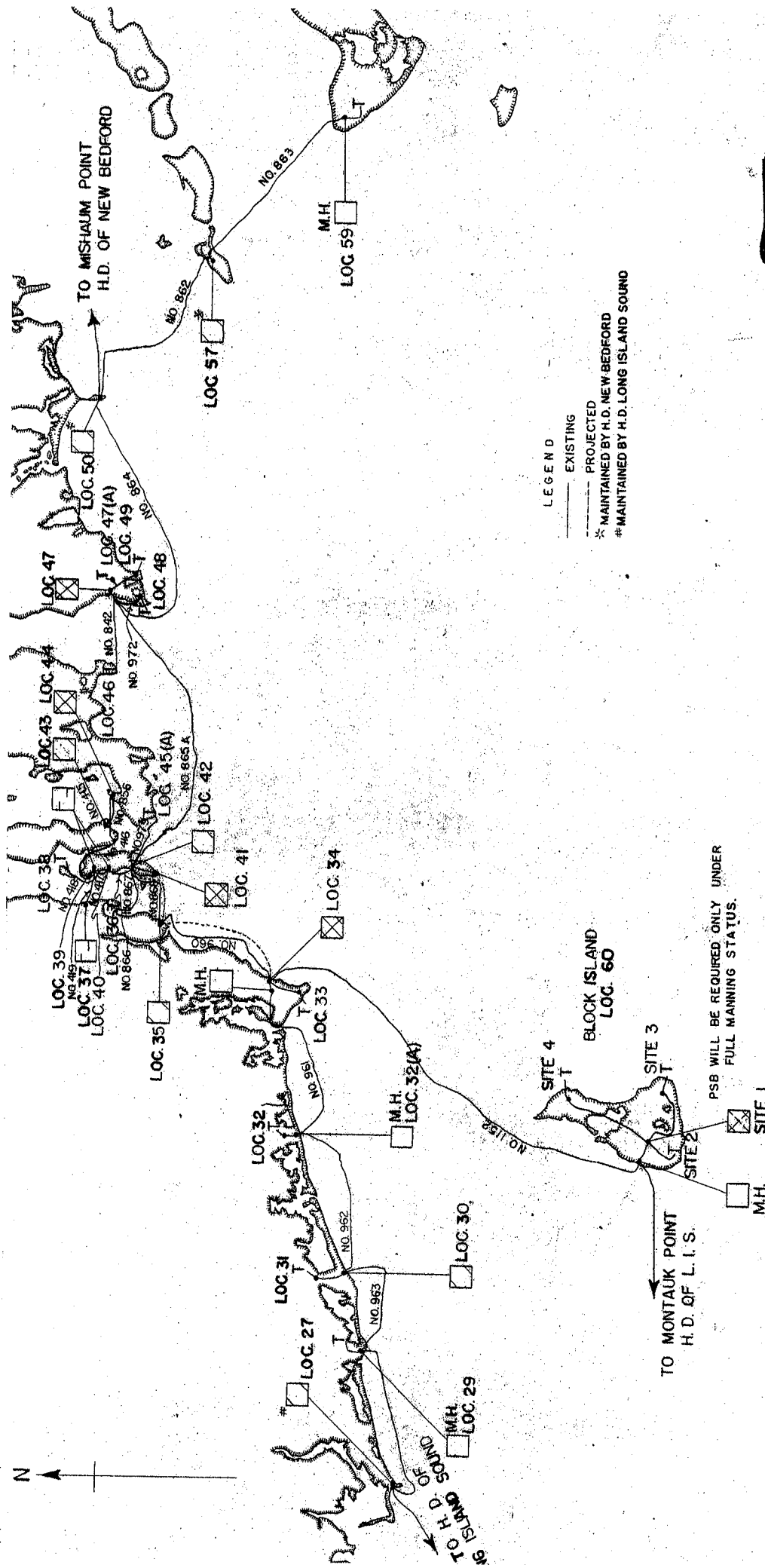




CIRCUIT DIAGRAM

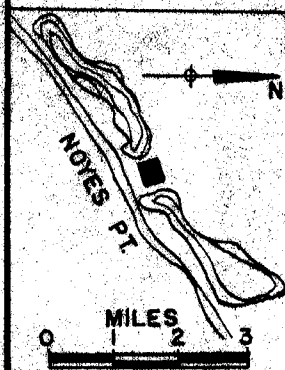
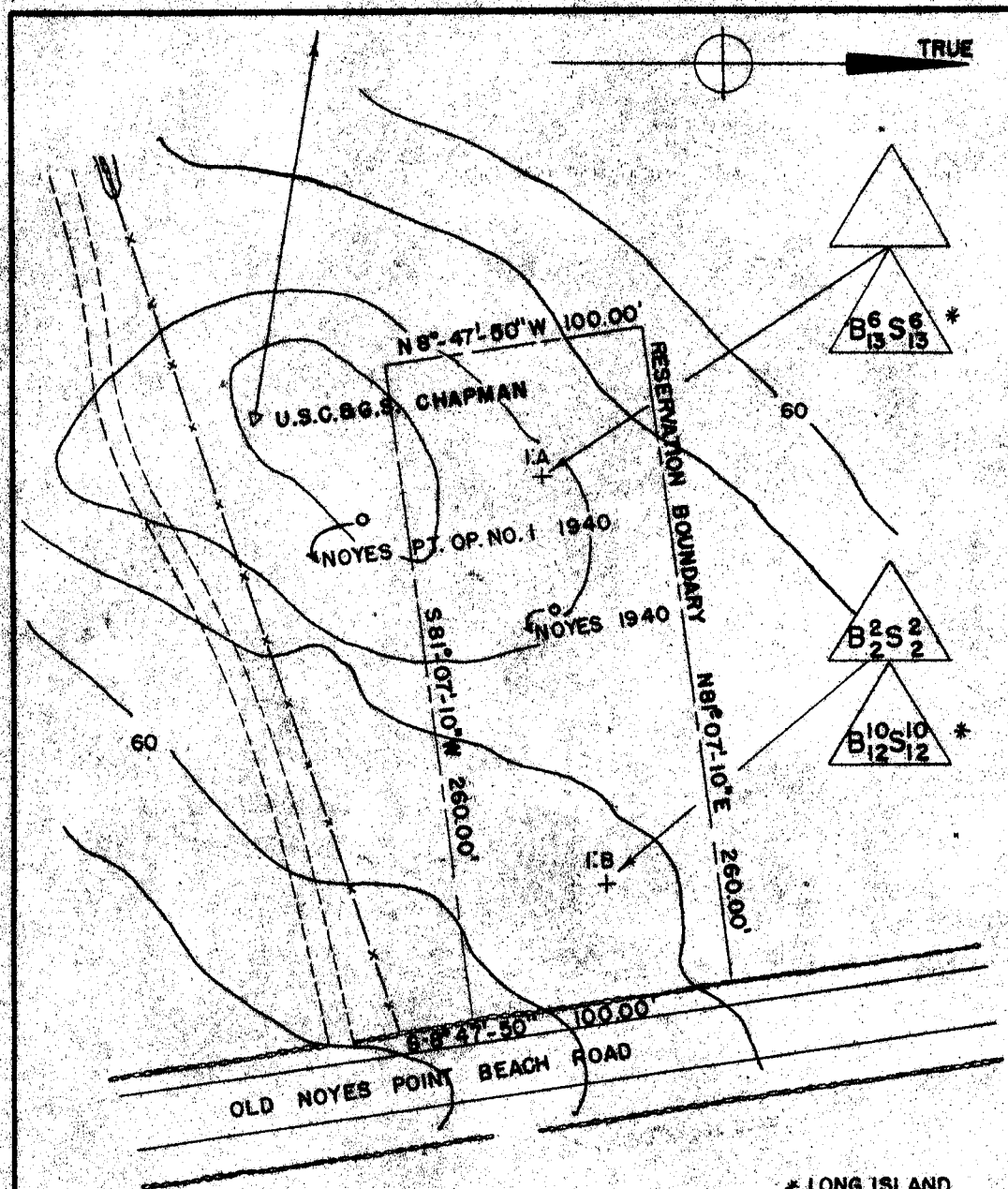
EXHIBIT 6-B

Deleted - To be distributed when approved exhibit is
received from the Chief Signal Officer.



REVISED	
H.D. OF NARRAGANSETT BAY	
CABLE ROUTINGS	
PREPARED BY	DATE 1-2-45
HARBOR DEFENSES OF NARRAGANSETT BAY	EX. NO. 7-B



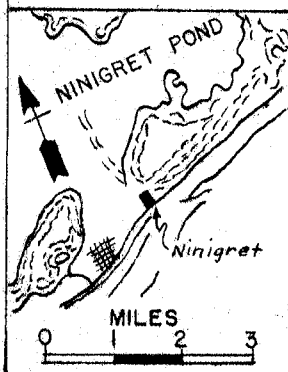
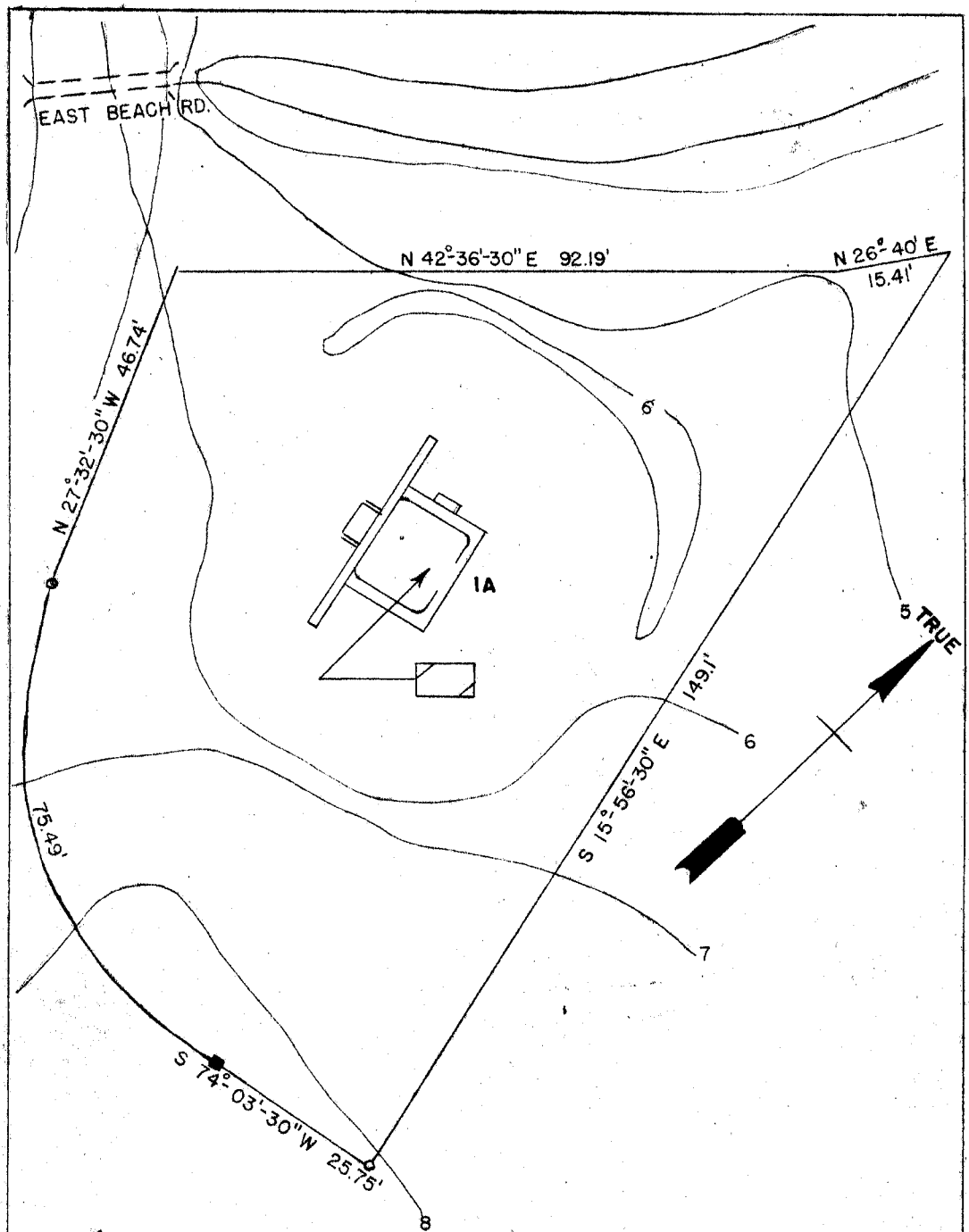


REVISED
DATE
1 FEB '45

HARBOR DEFENSES OF
NARRAGANSETT BAY
LOG. 29 NOYES POINT

PREPARED BY
H.D. NARR. BAY

14 JUNE 1943
EX. NO. 9-B-2

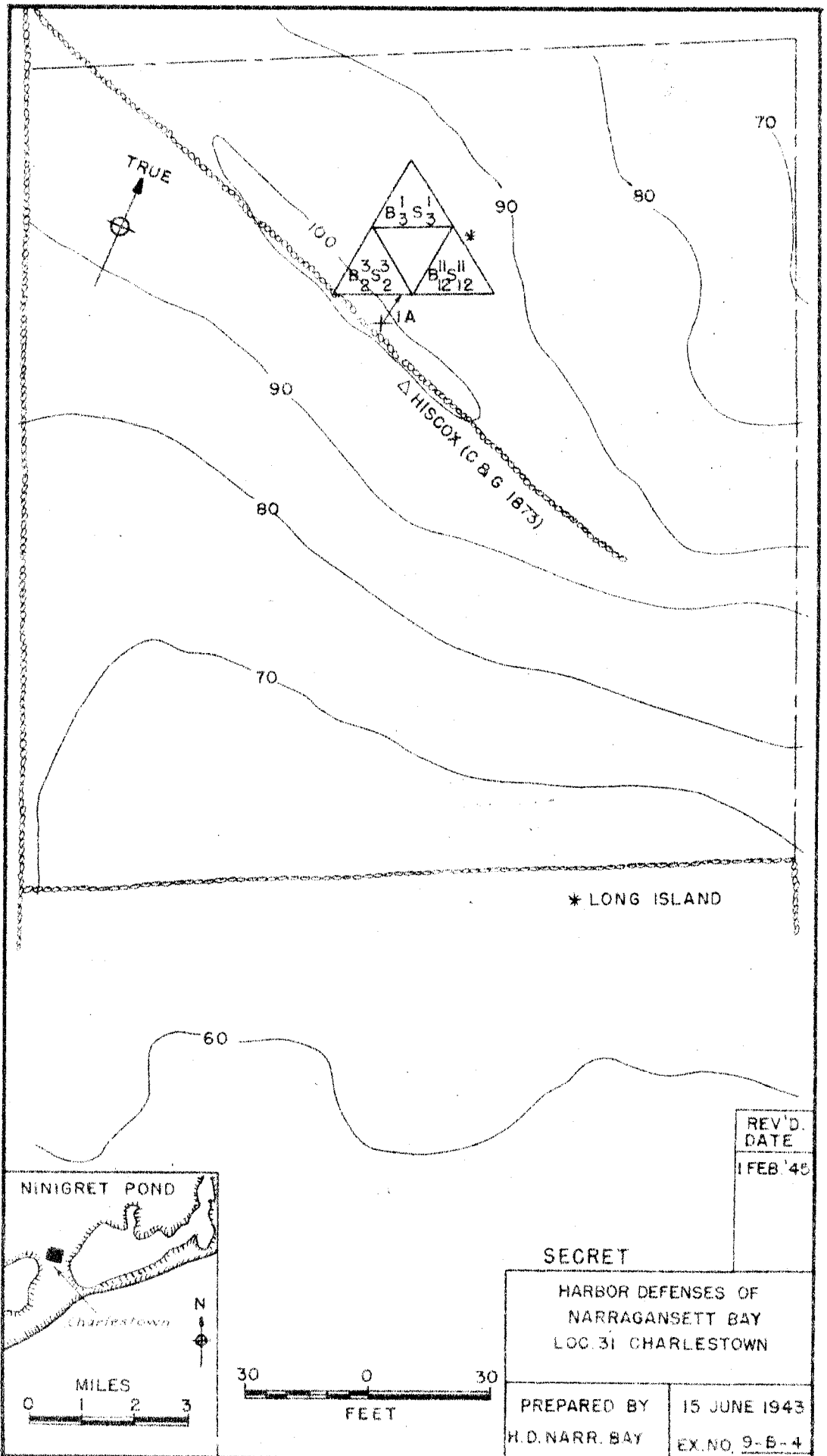


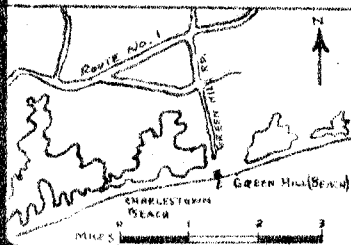
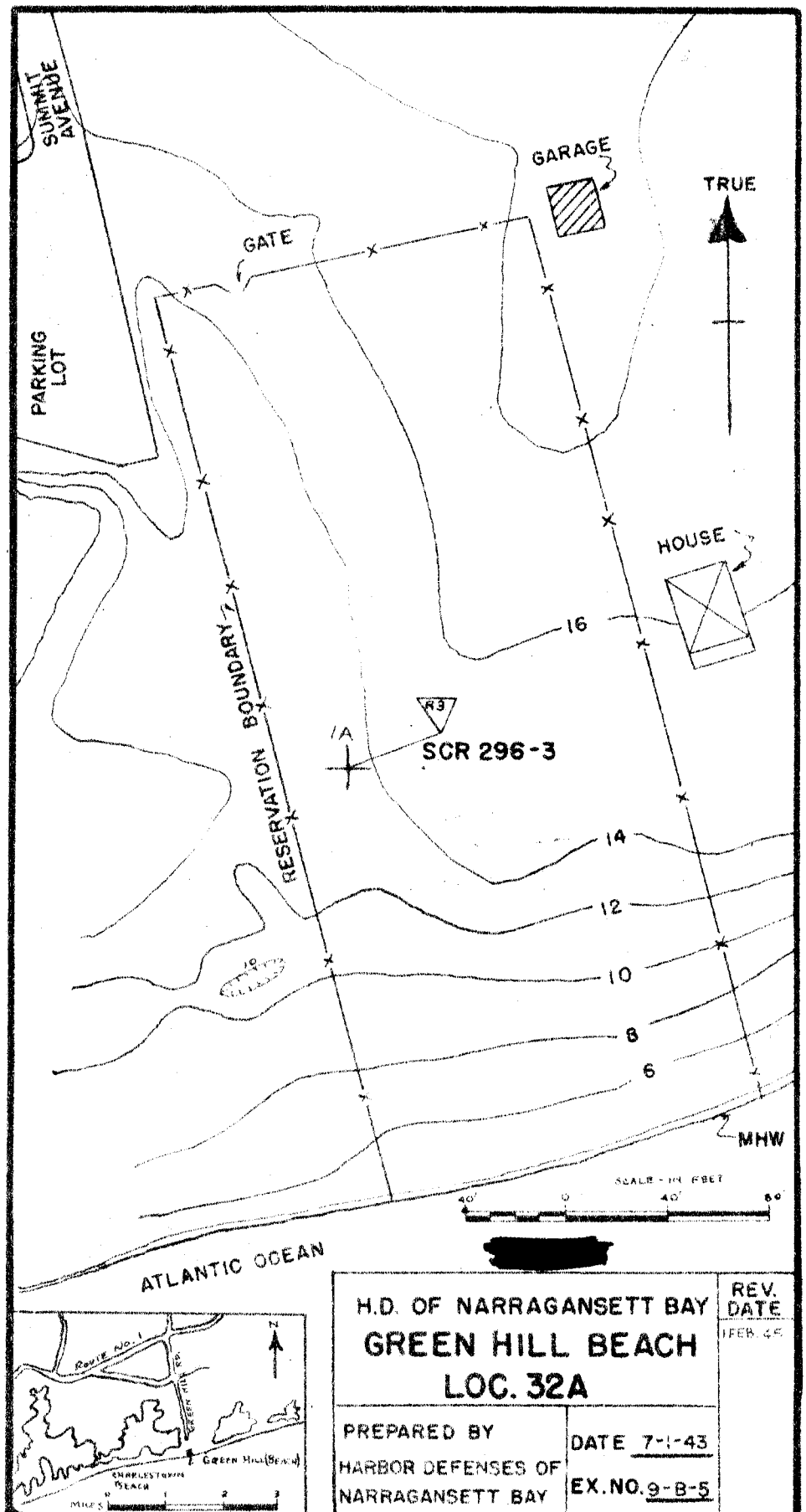
REVISED
DATE
1 FEB '45

HARBOR DEFENSES OF
NARRAGANSETT BAY
LOC. 30 NINIGRET

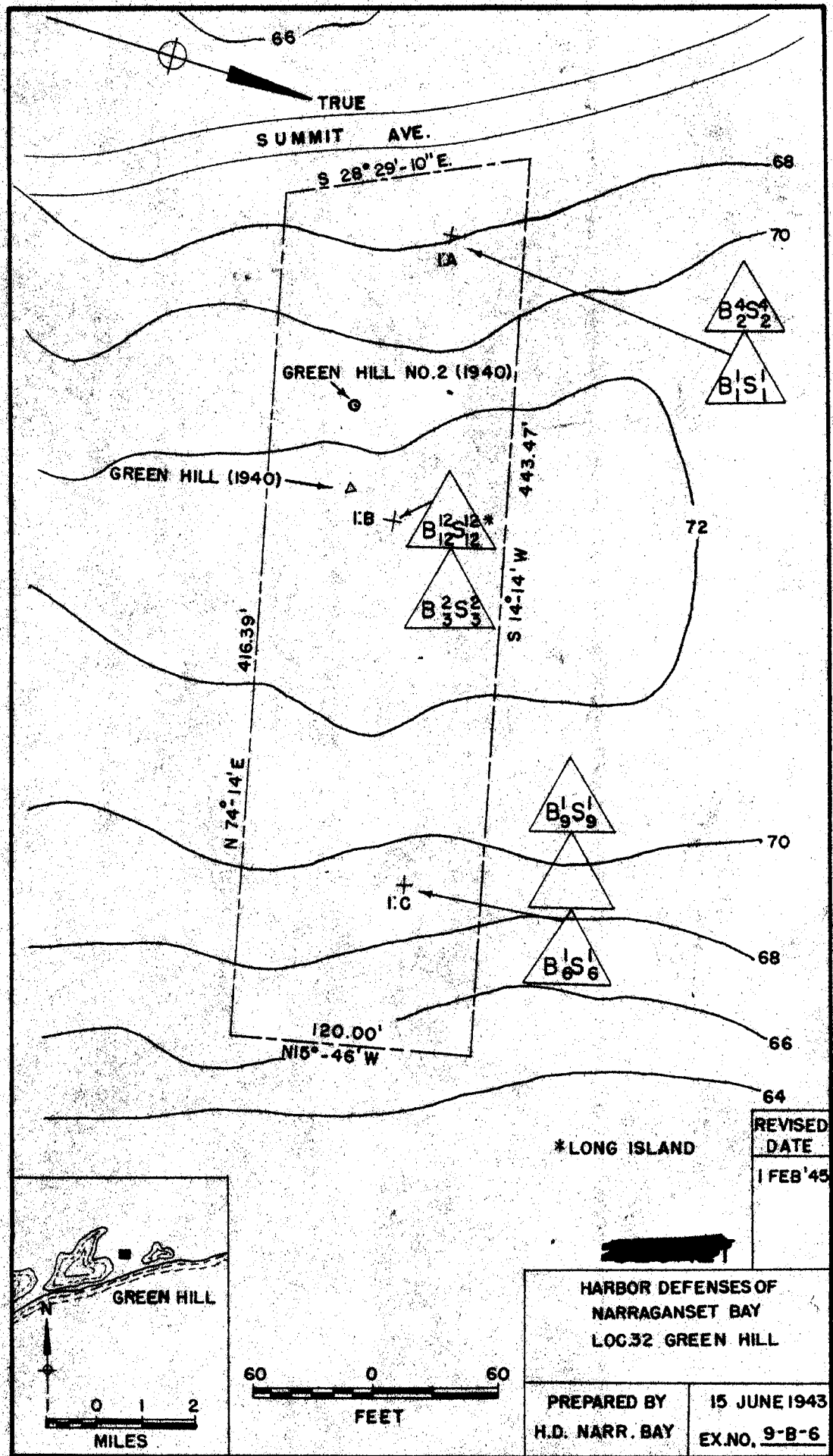
PREPARED BY
H.D. NARR. BAY

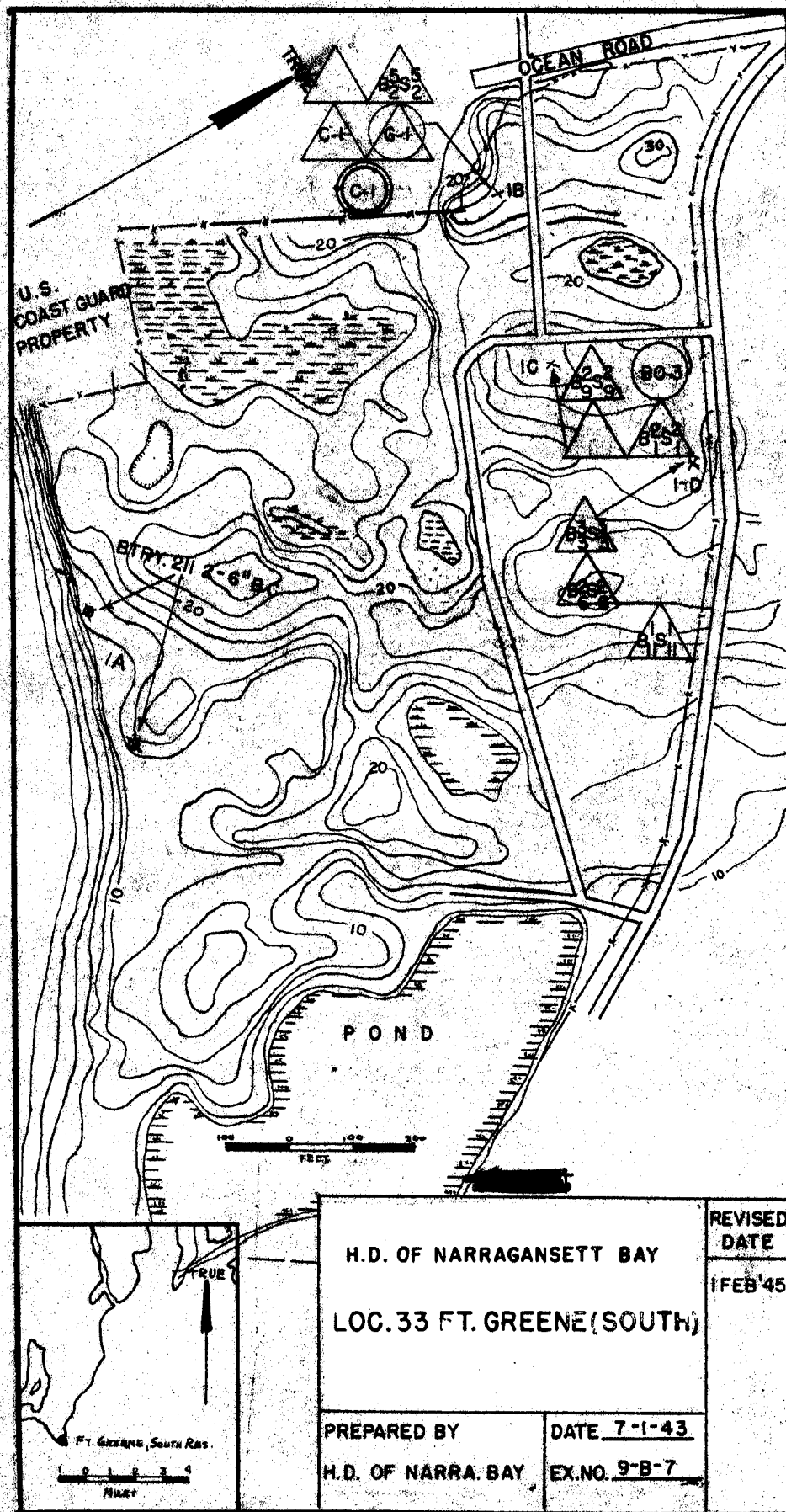
15 JUNE 1943
EX. NO. 9-8-3

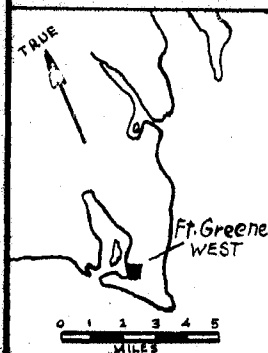
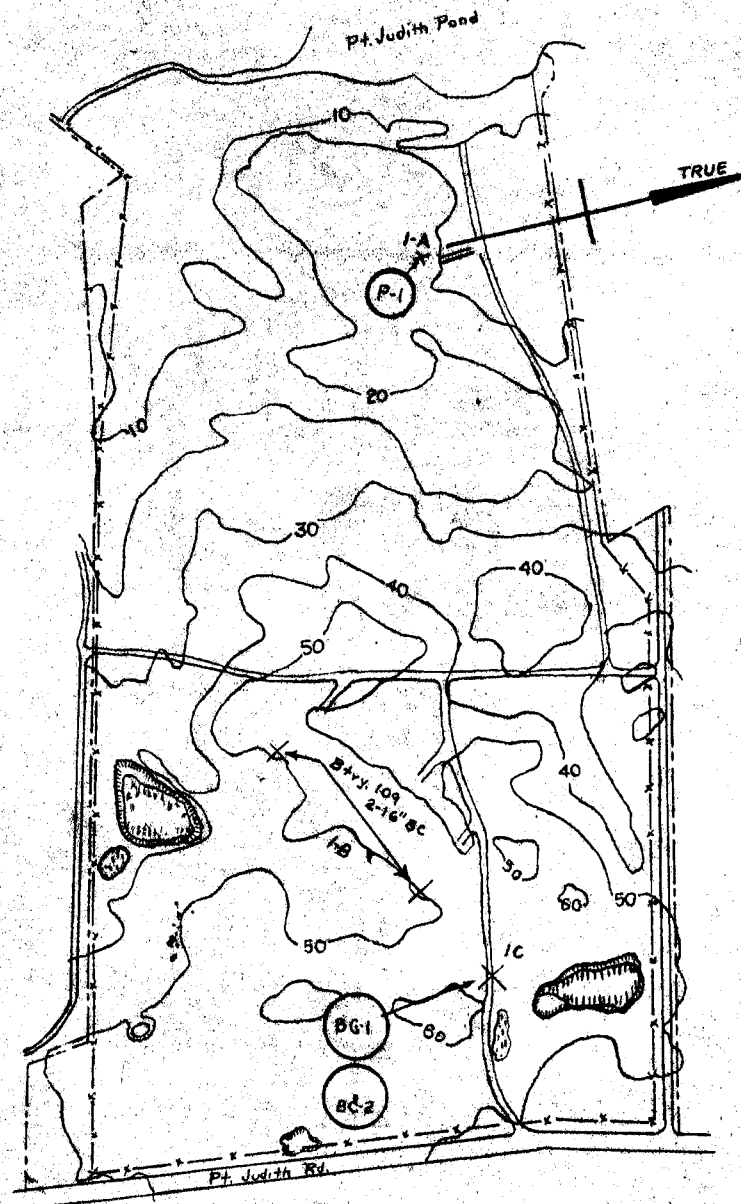




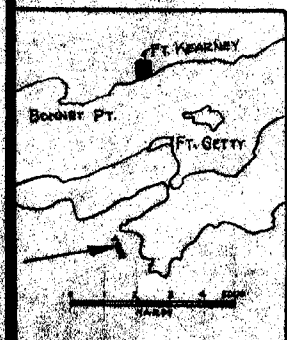
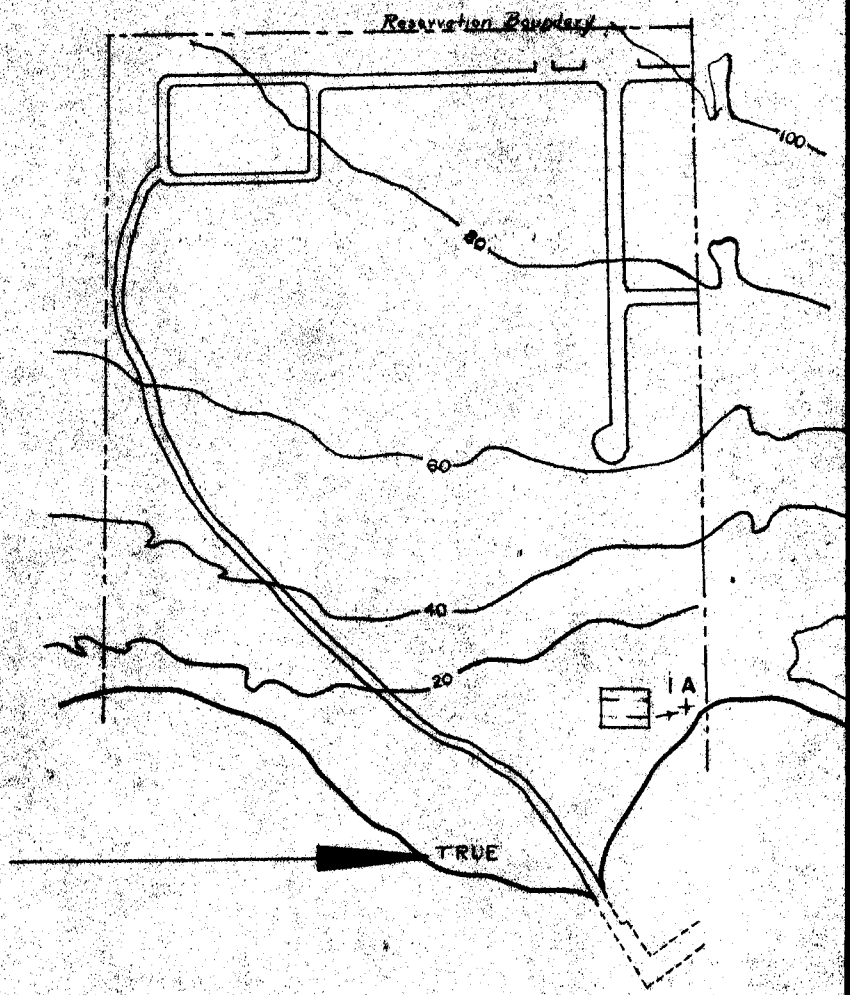
H.D. OF NARRAGANSETT BAY		REV. DATE
GREEN HILL BEACH		FEB. 45
LOC. 32A		
PREPARED BY	DATE 7-1-43	
HARBOR DEFENSES OF NARRAGANSETT BAY	EX. NO. 9-B-5	





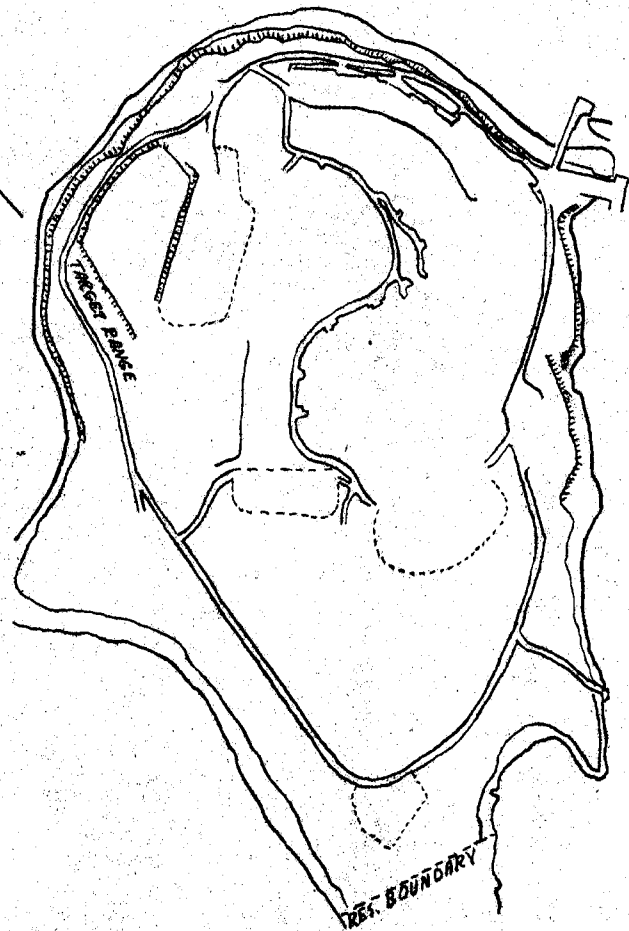


H.D. OF NARRAGANSETT BAY LOC. NO. 34 FT. GREENE (WEST)		REVISED DATE
		1 FEB '45
PREPARED BY H.D. NARR. BAY	DATE 7-1-43 EX. NO. 9-B-8	

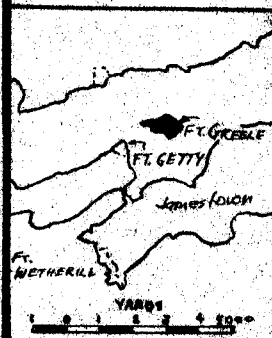


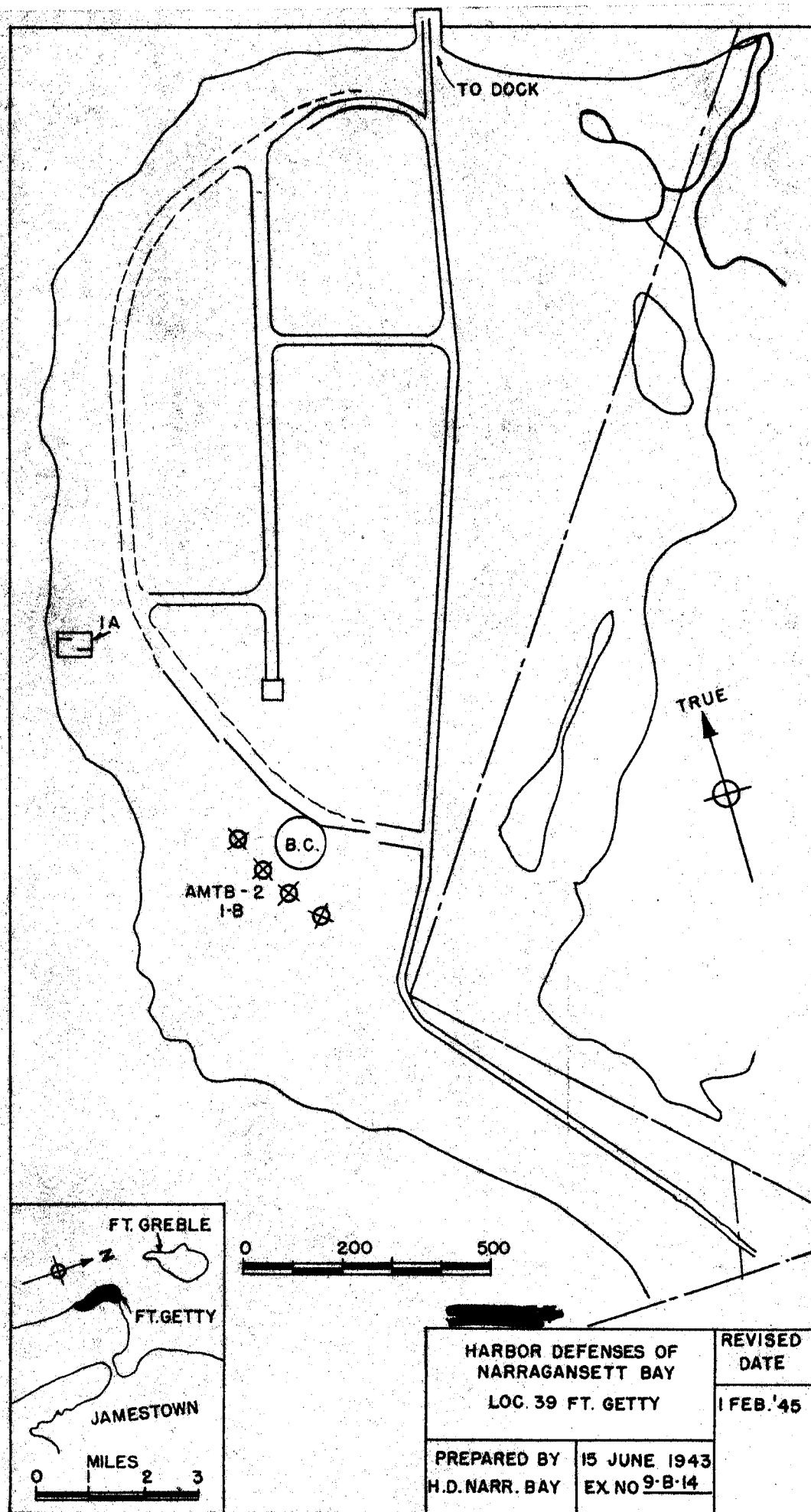
H.D. OF NARRAGANSETT BAY LOC. 37 FT. KEARNEY LAND RESERVATION		REVIS'D DATE 1 FEB '45
PREPARED BY H.D. OF NARRA. BAY	DATE 7-1-43 EX. NO. 98-12	

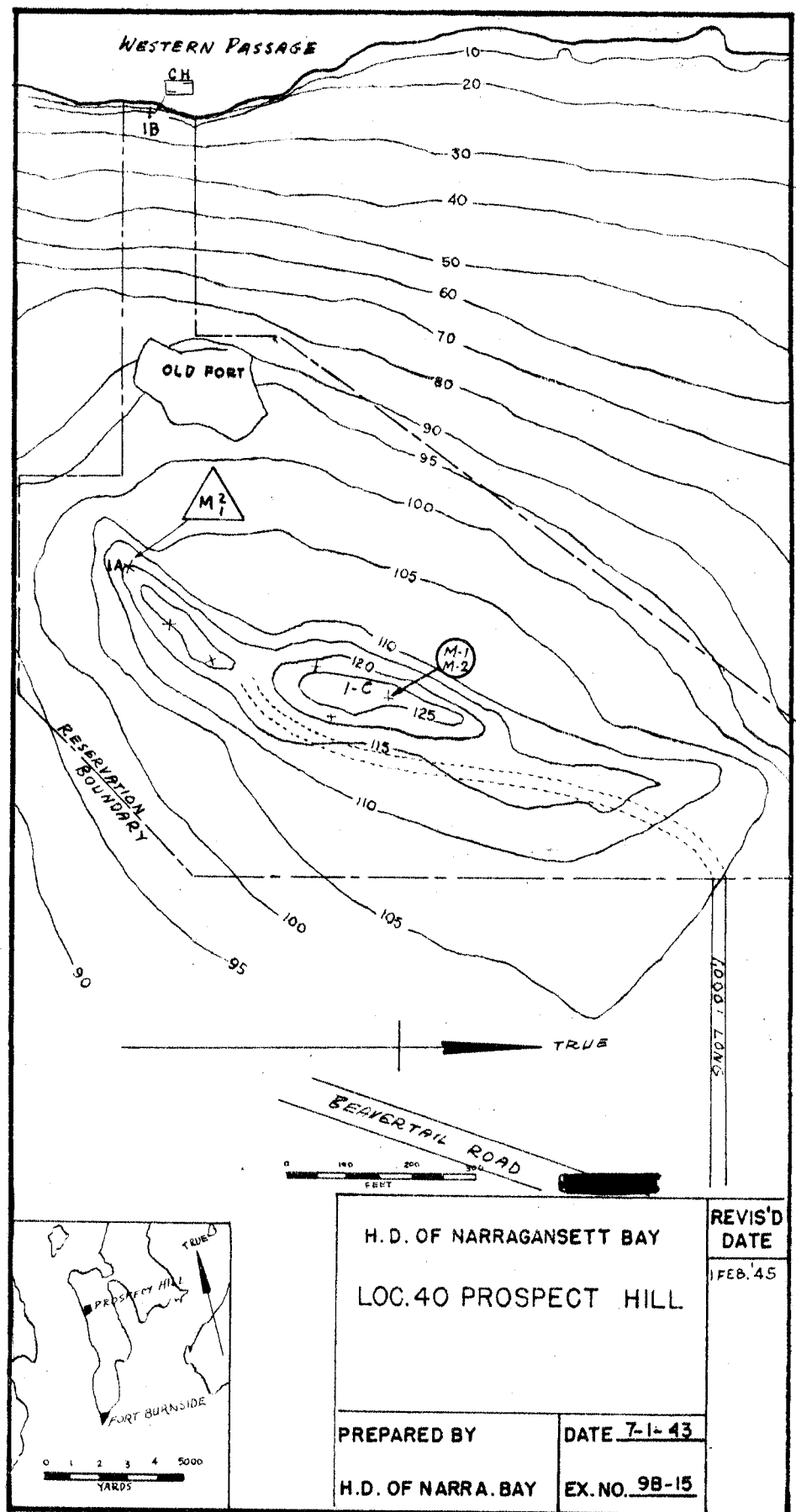
TRUE

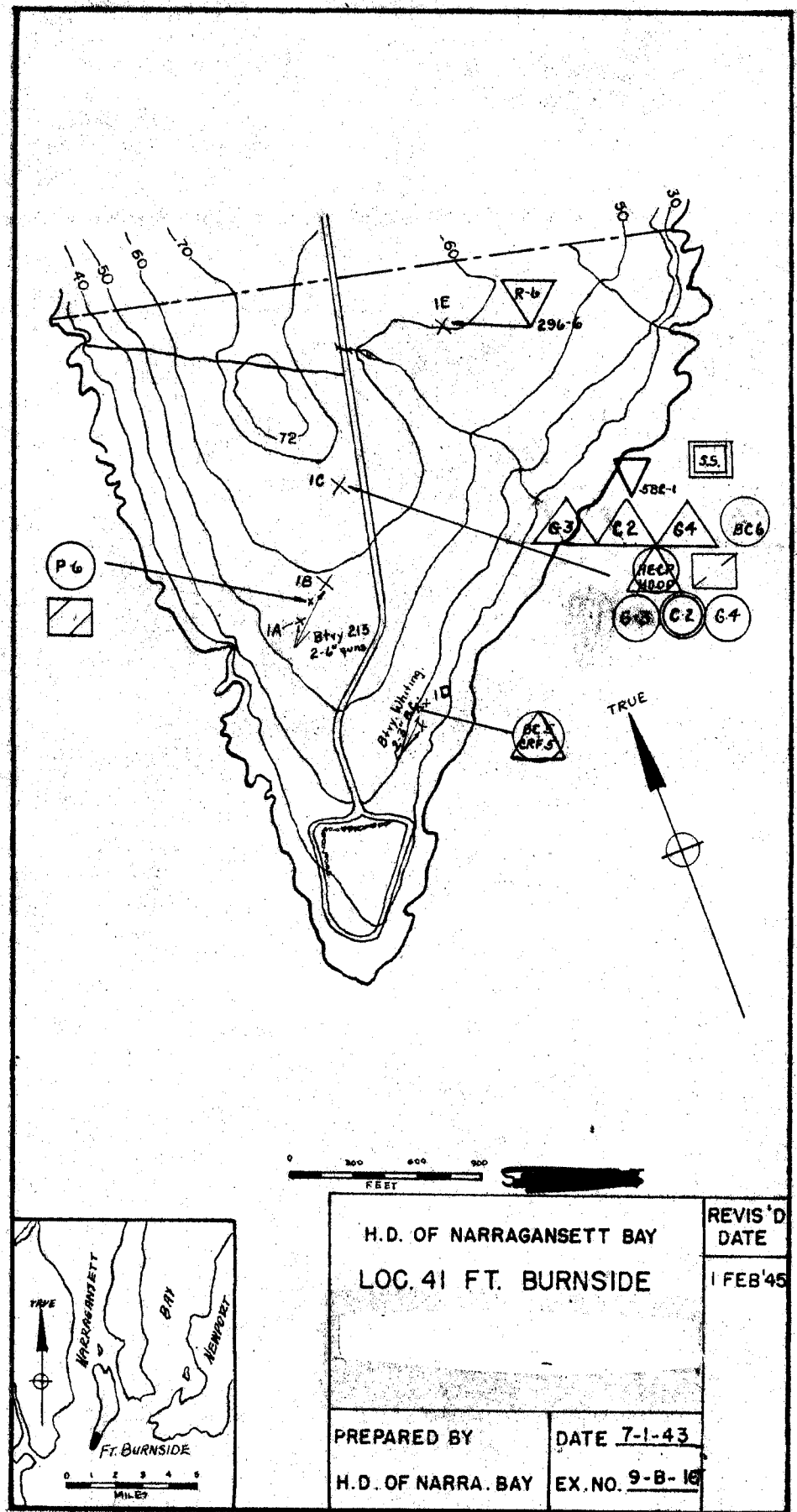


0 100 200
FEET

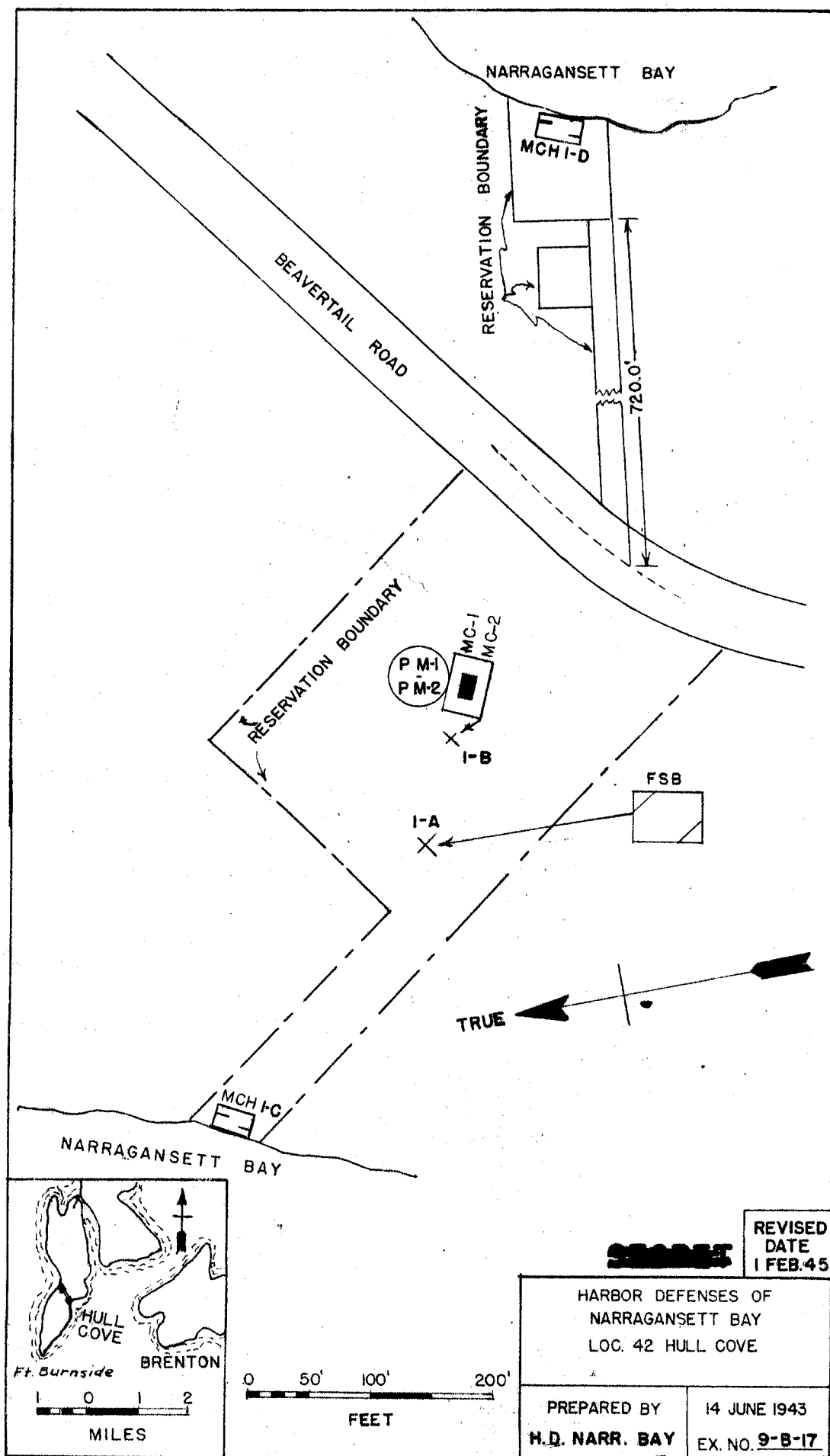


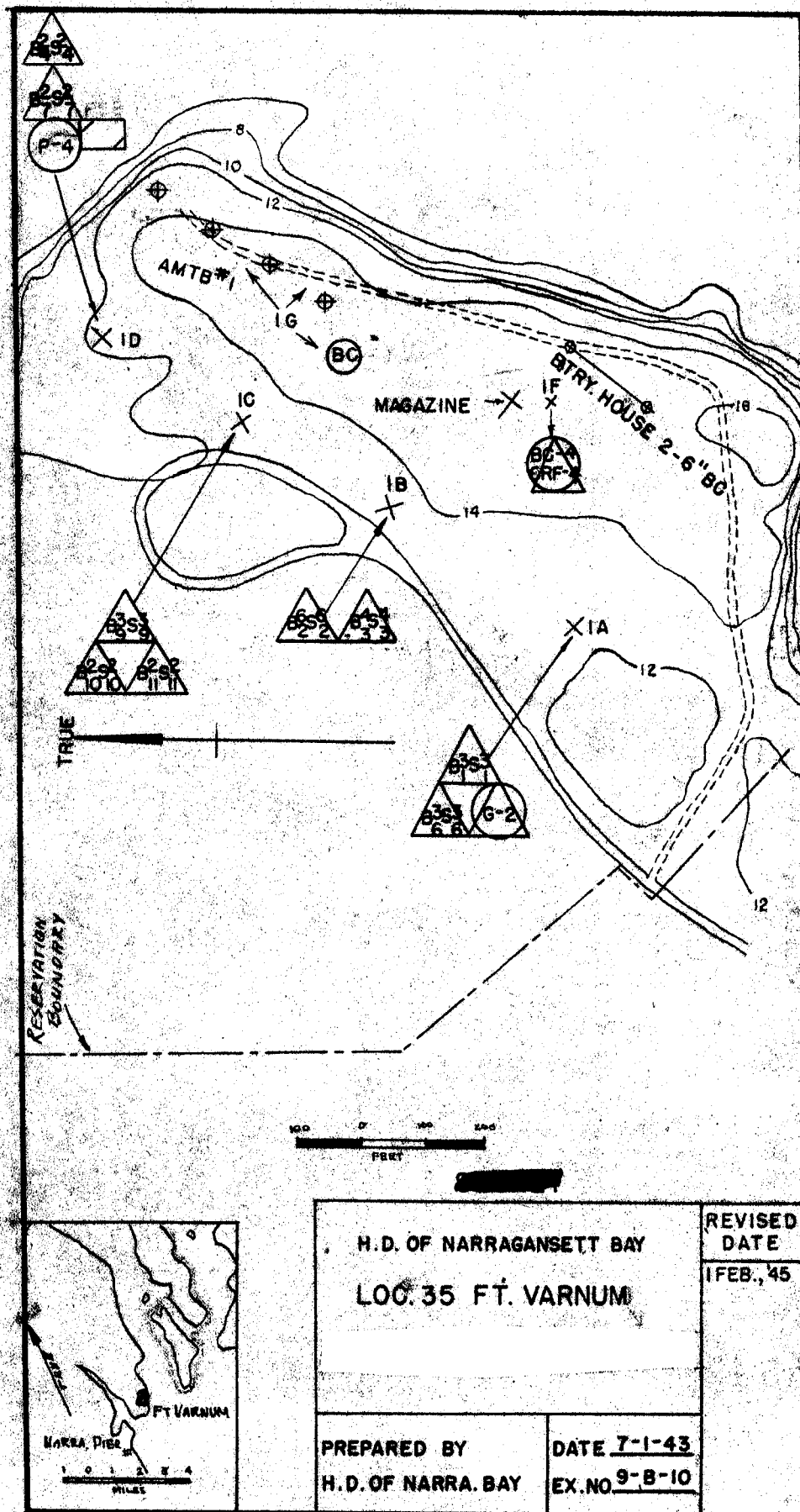


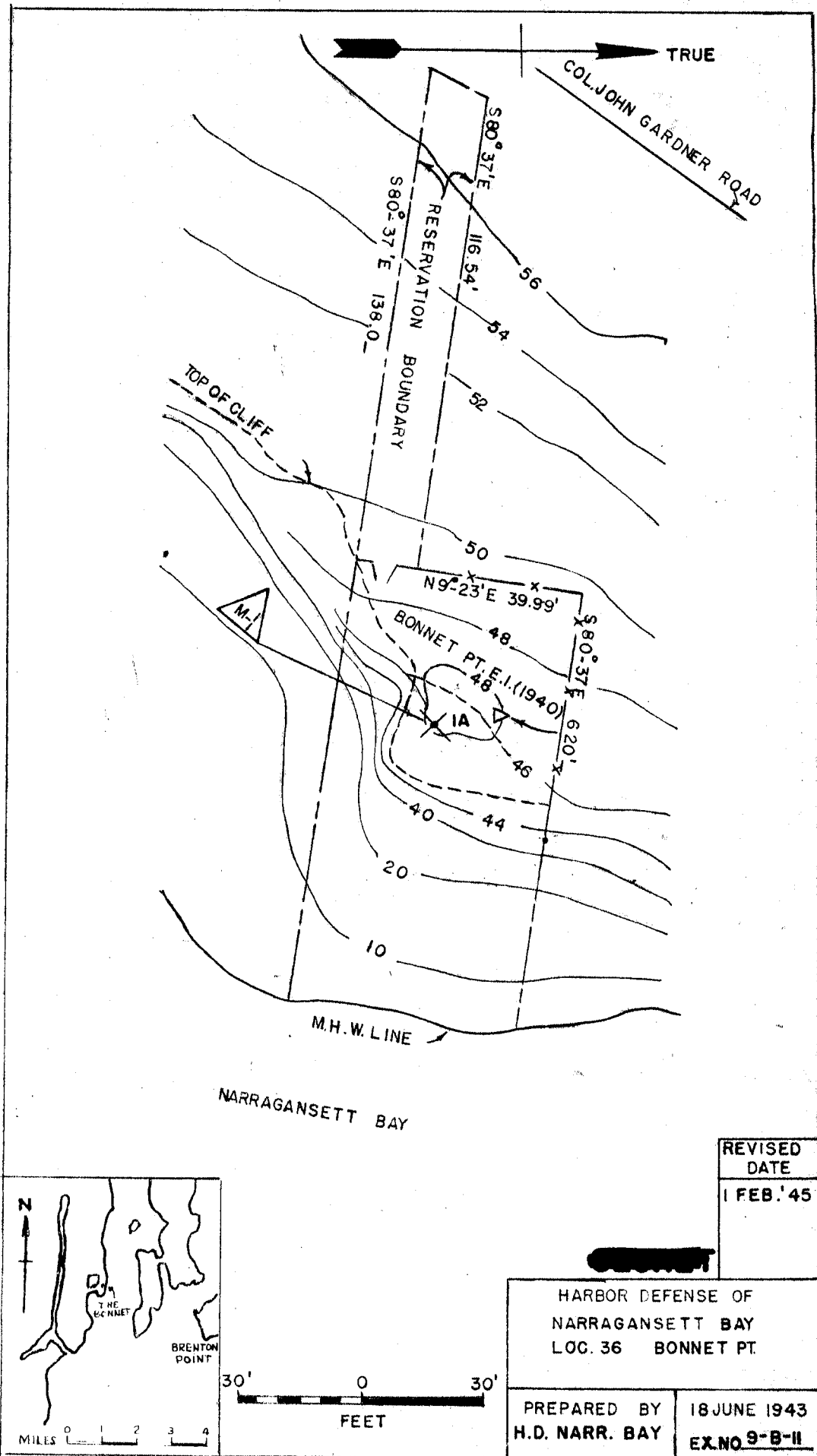


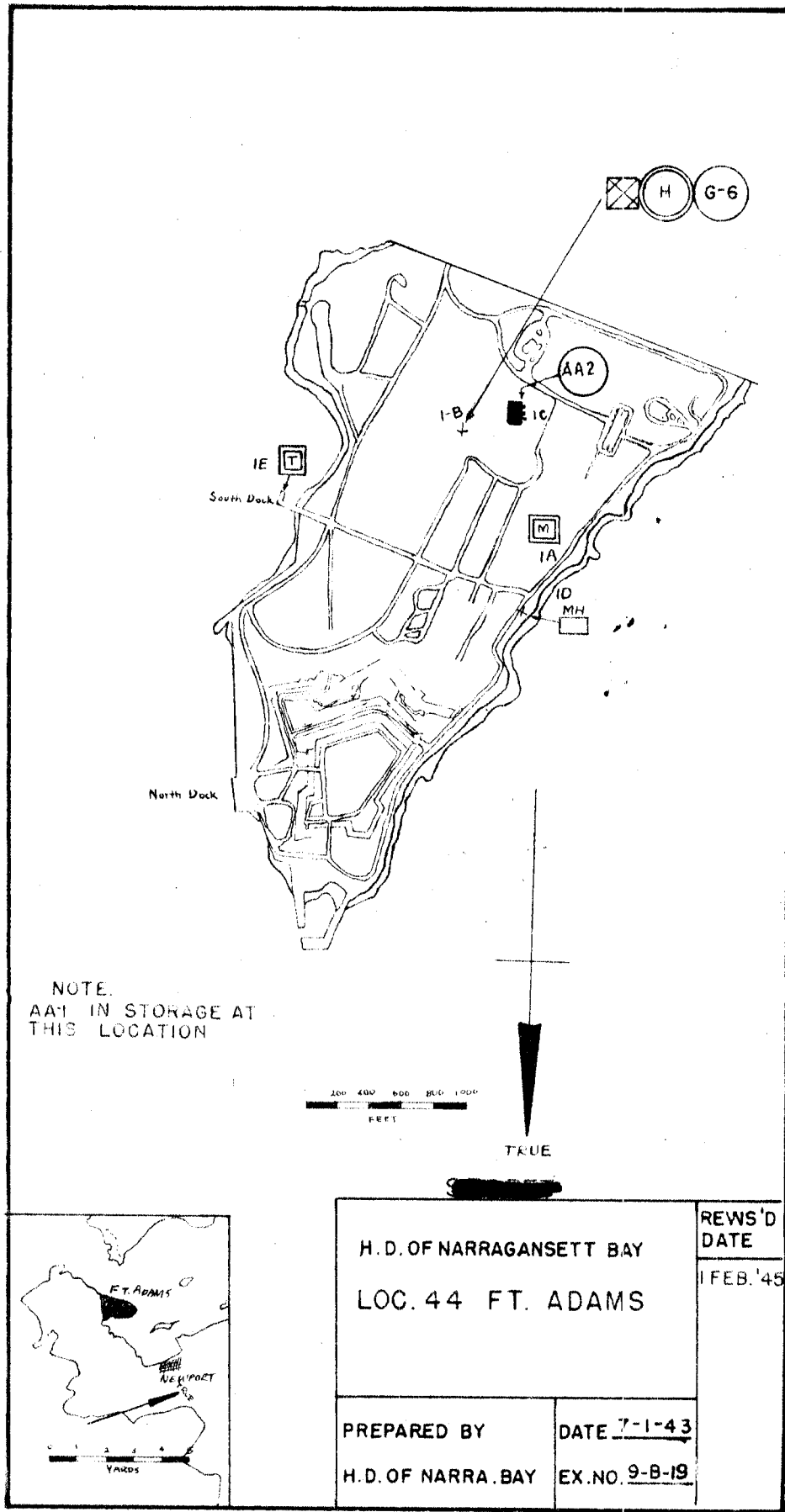


H.D. OF NARRAGANSETT BAY LOC. 41 FT. BURNSIDE		REVIS'D DATE 1 FEB 45
PREPARED BY H.D. OF NARRA. BAY	DATE 7-1-43 EX. NO. 9-B-16	





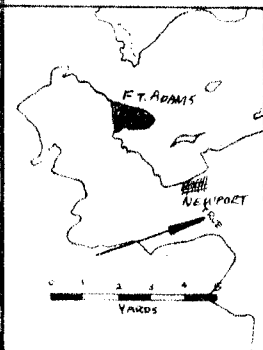




NOTE.
AA-1 IN STORAGE AT
THIS LOCATION

200 400 600 800 1000
FEET

TRUE

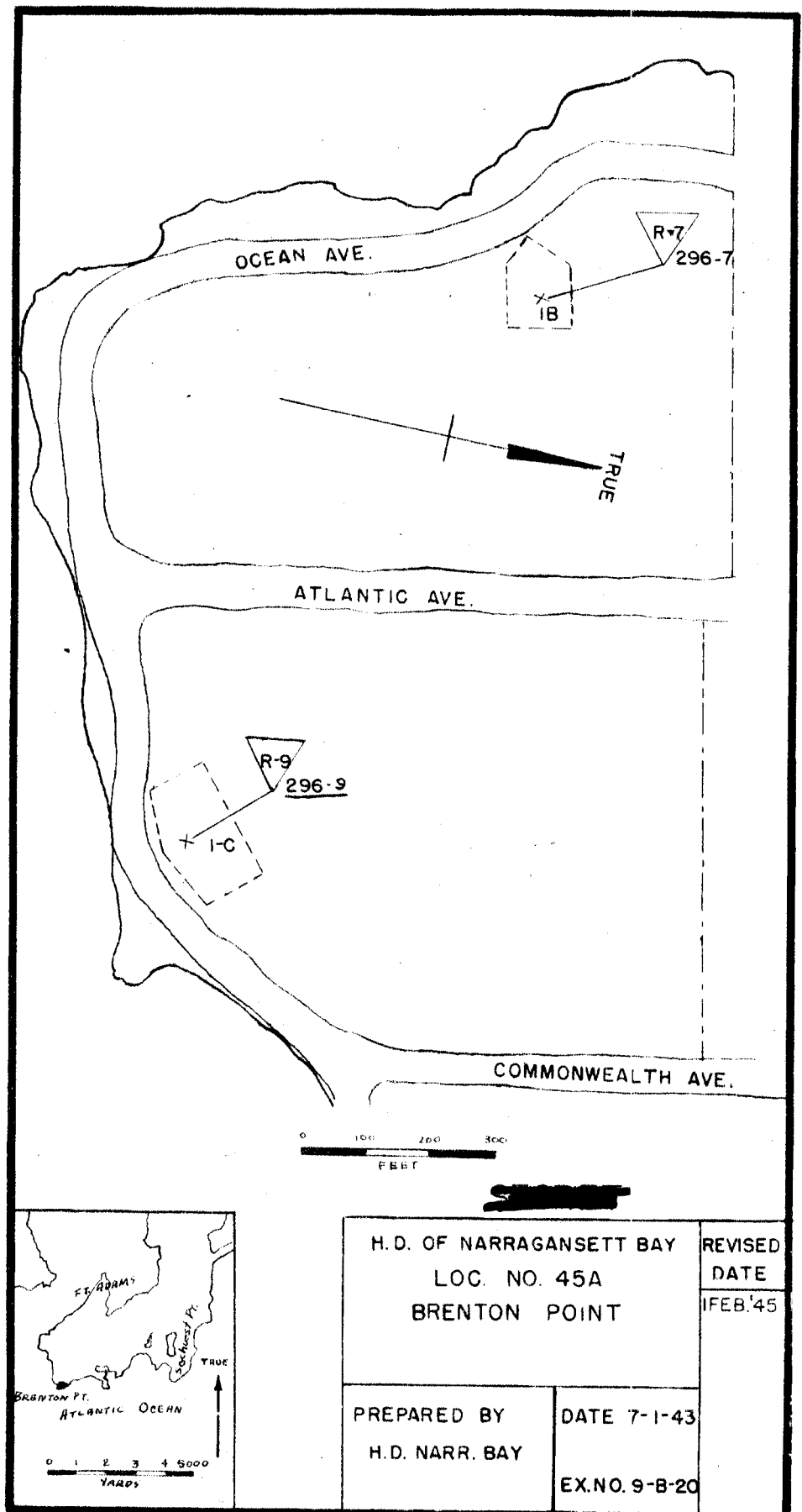


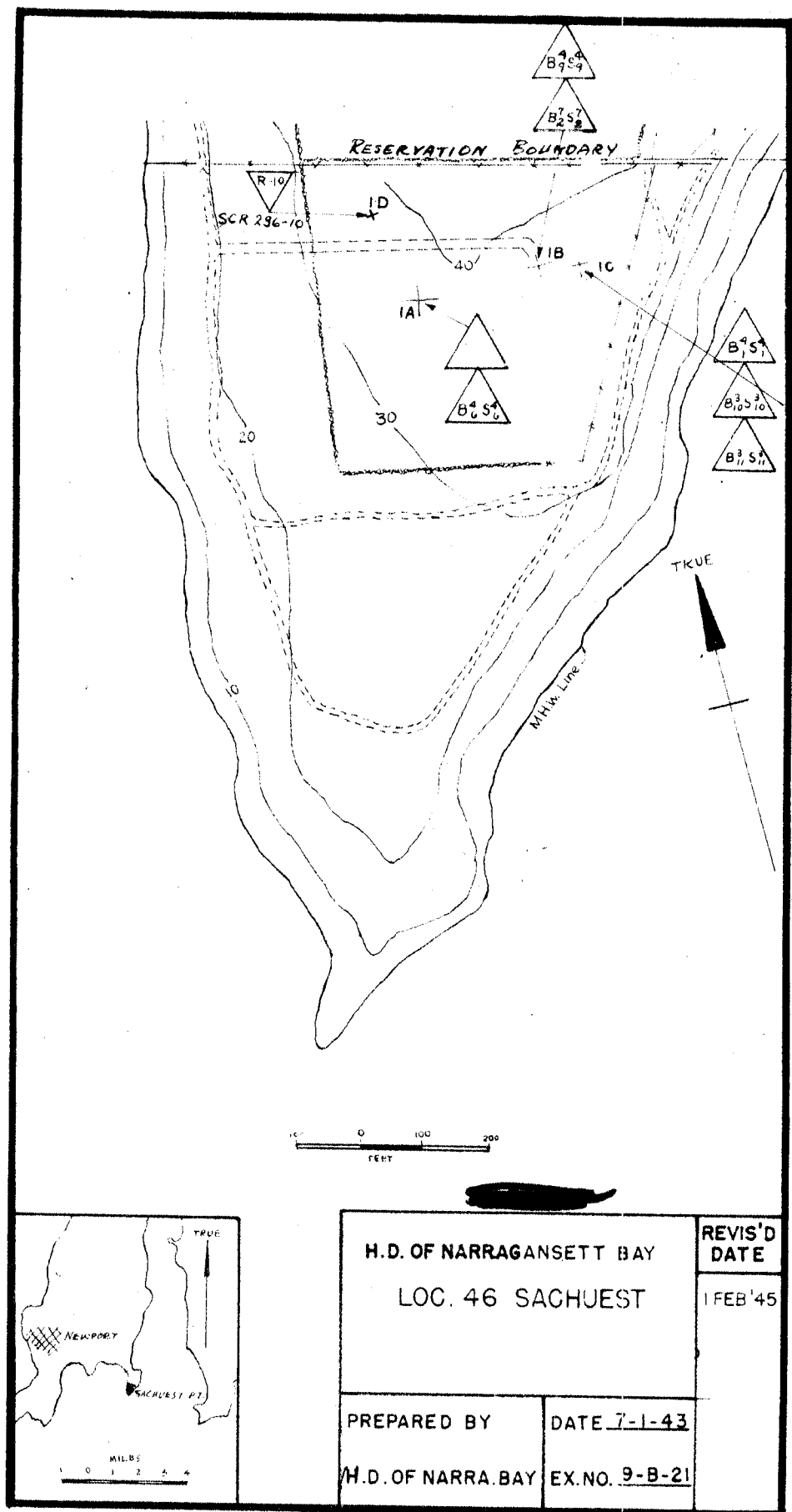
H.D. OF NARRAGANSETT BAY
LOC. 44 FT. ADAMS

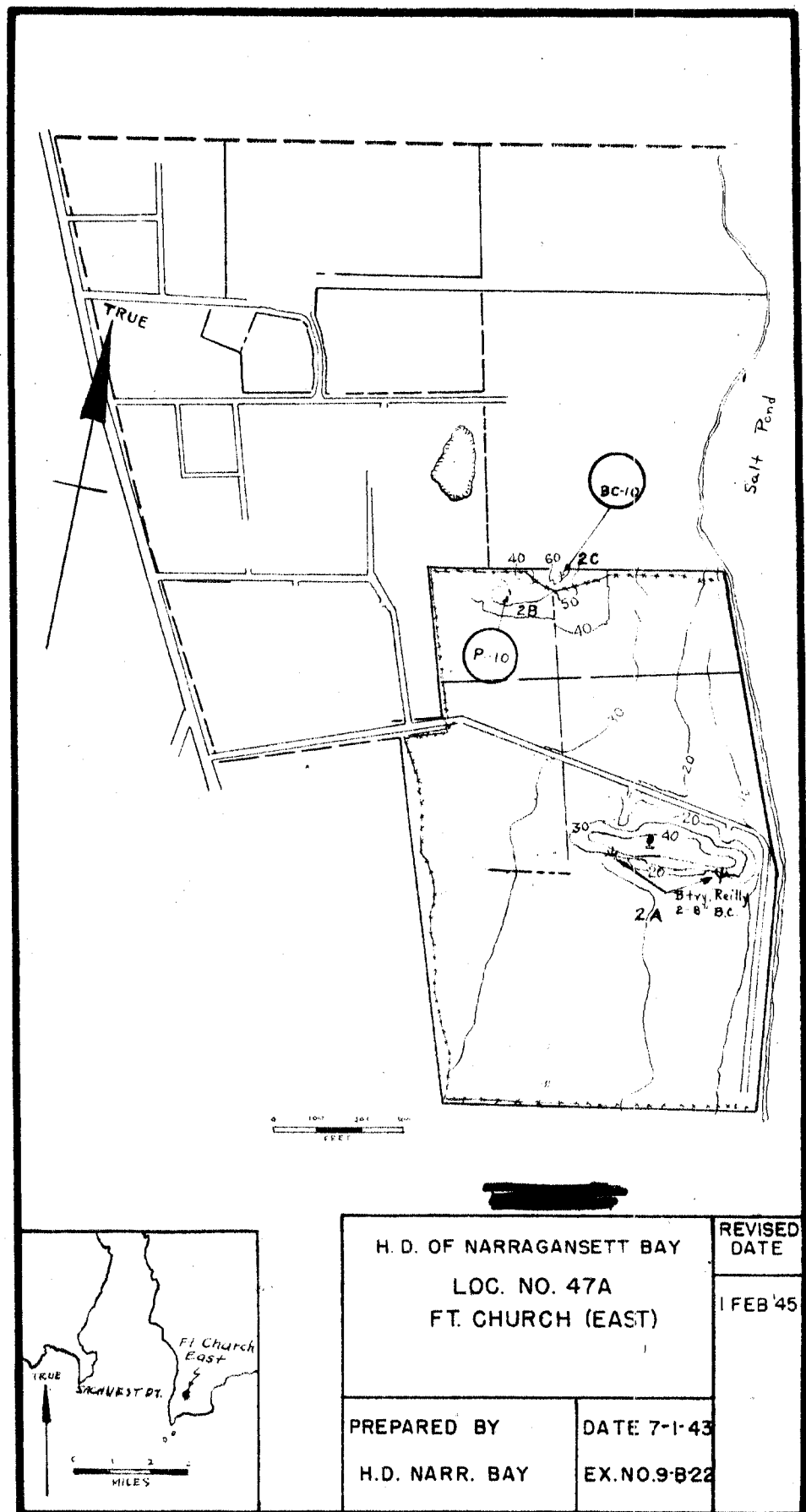
REWS'D
DATE
1 FEB. '45

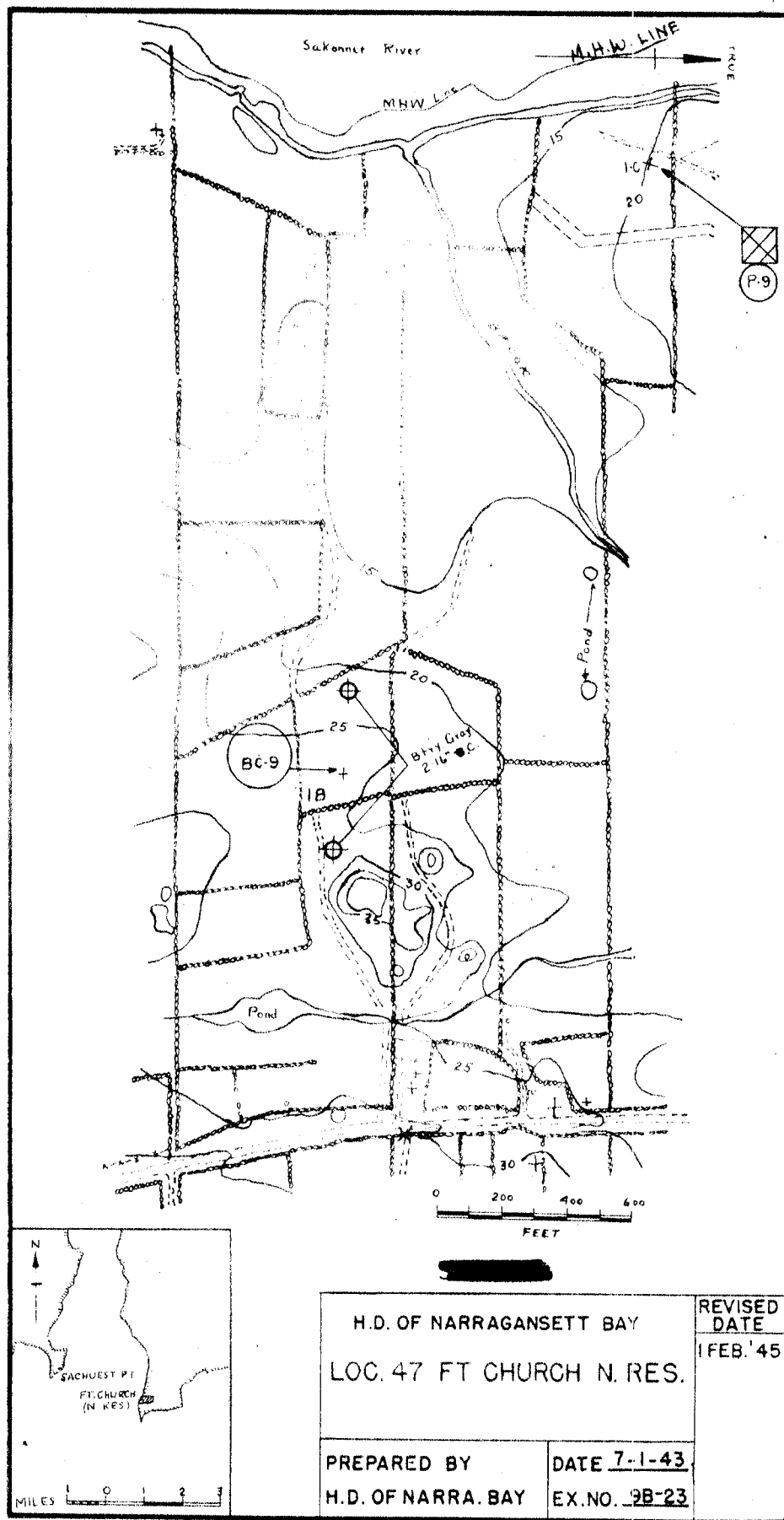
PREPARED BY
H.D. OF NARRA. BAY

DATE 7-1-43
EX. NO. 9-8-19

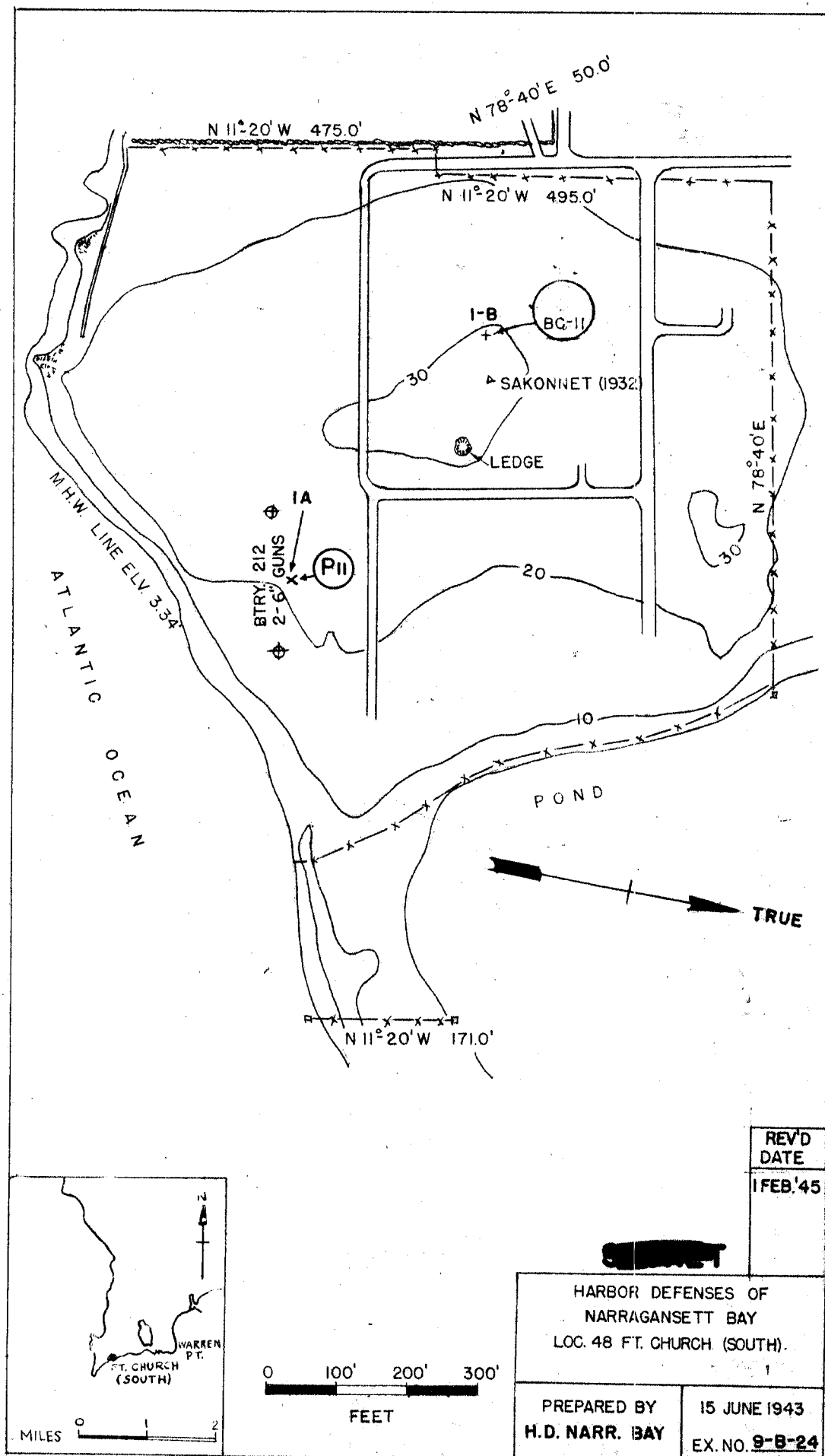


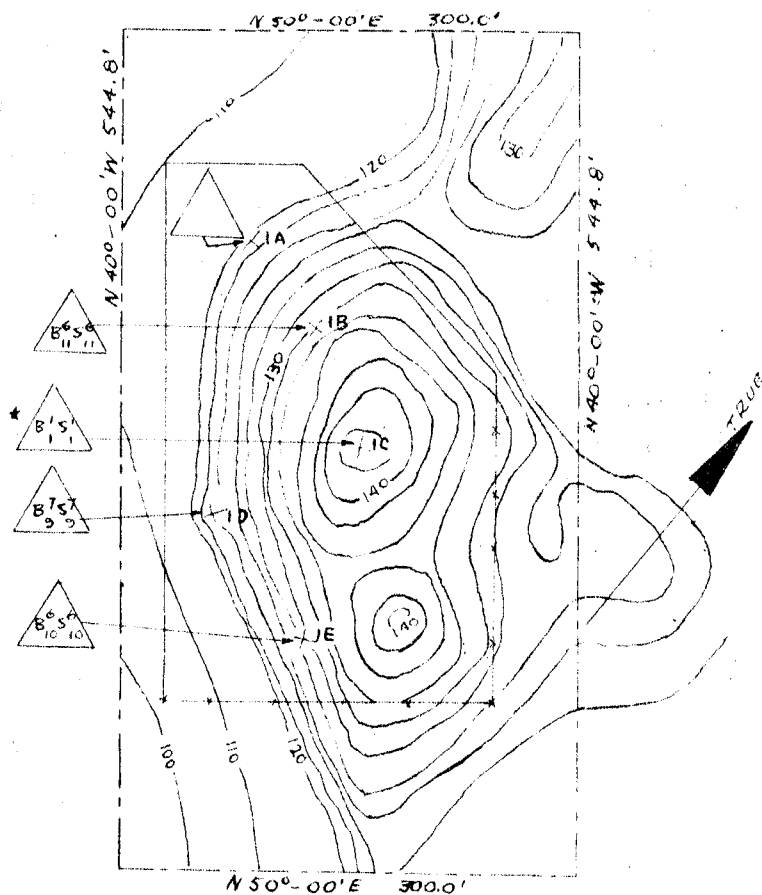




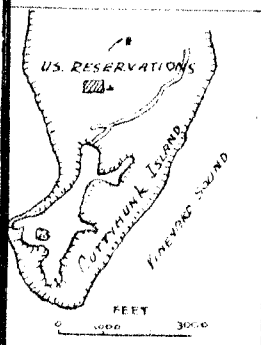
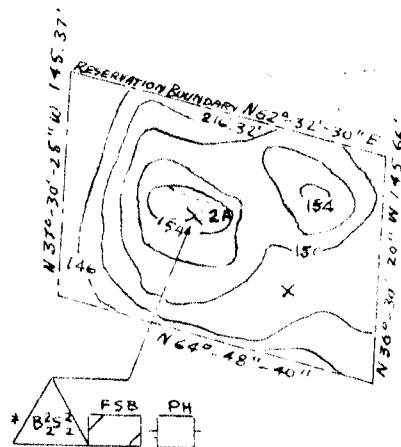


H.D. OF NARRAGANSETT BAY		REVISED DATE
LOC. 47 FT CHURCH N. RES.		1 FEB. '45
PREPARED BY	DATE 7-1-43	
H.D. OF NARRA. BAY	EX. NO. 9B-23	





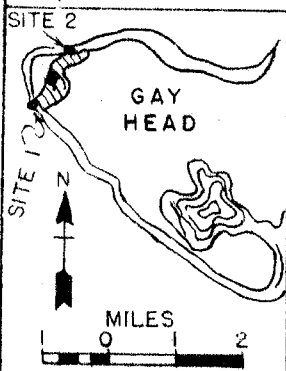
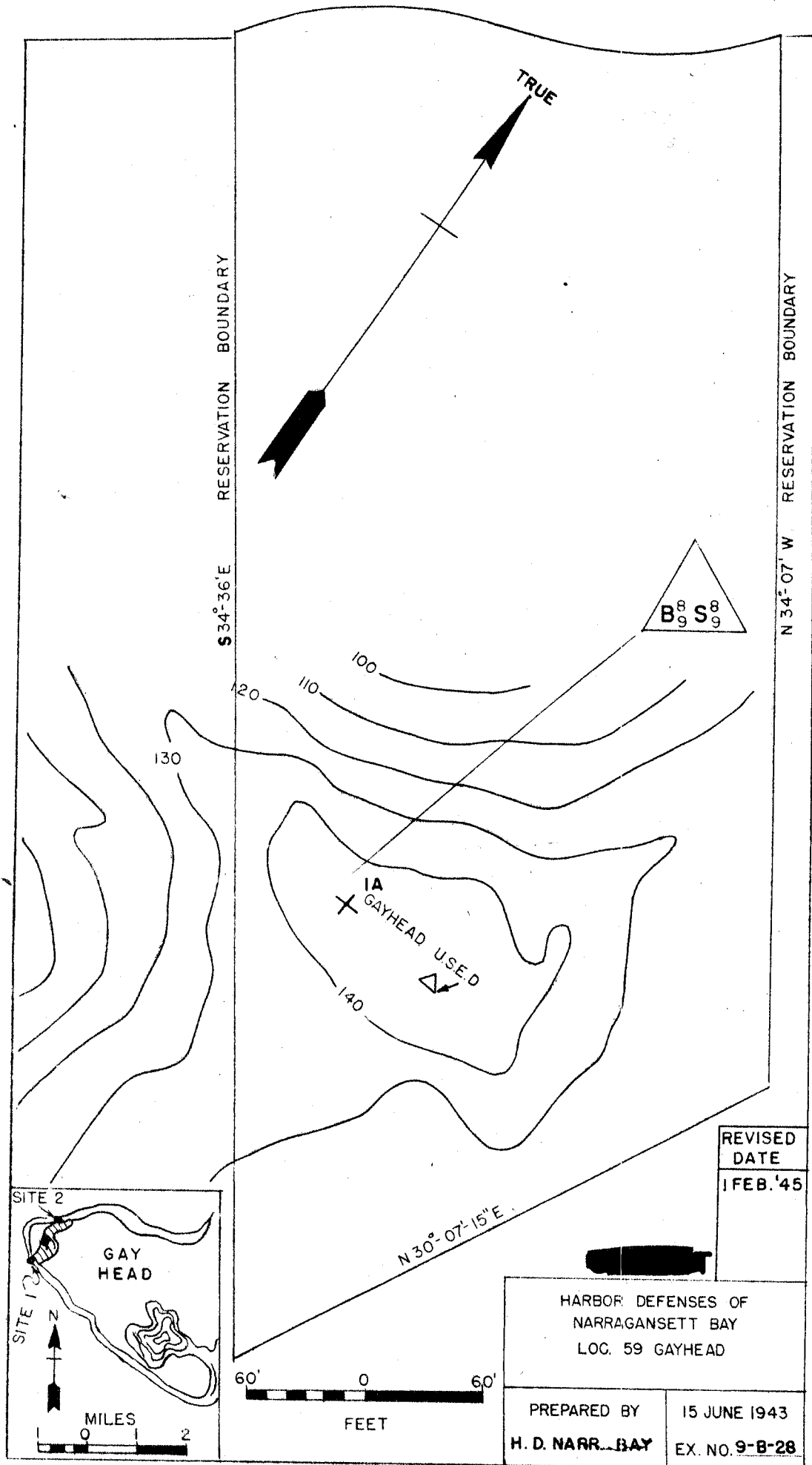
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H.D.OF NARRAGANSETT BAY
LOC.57 CUTTYHUNK

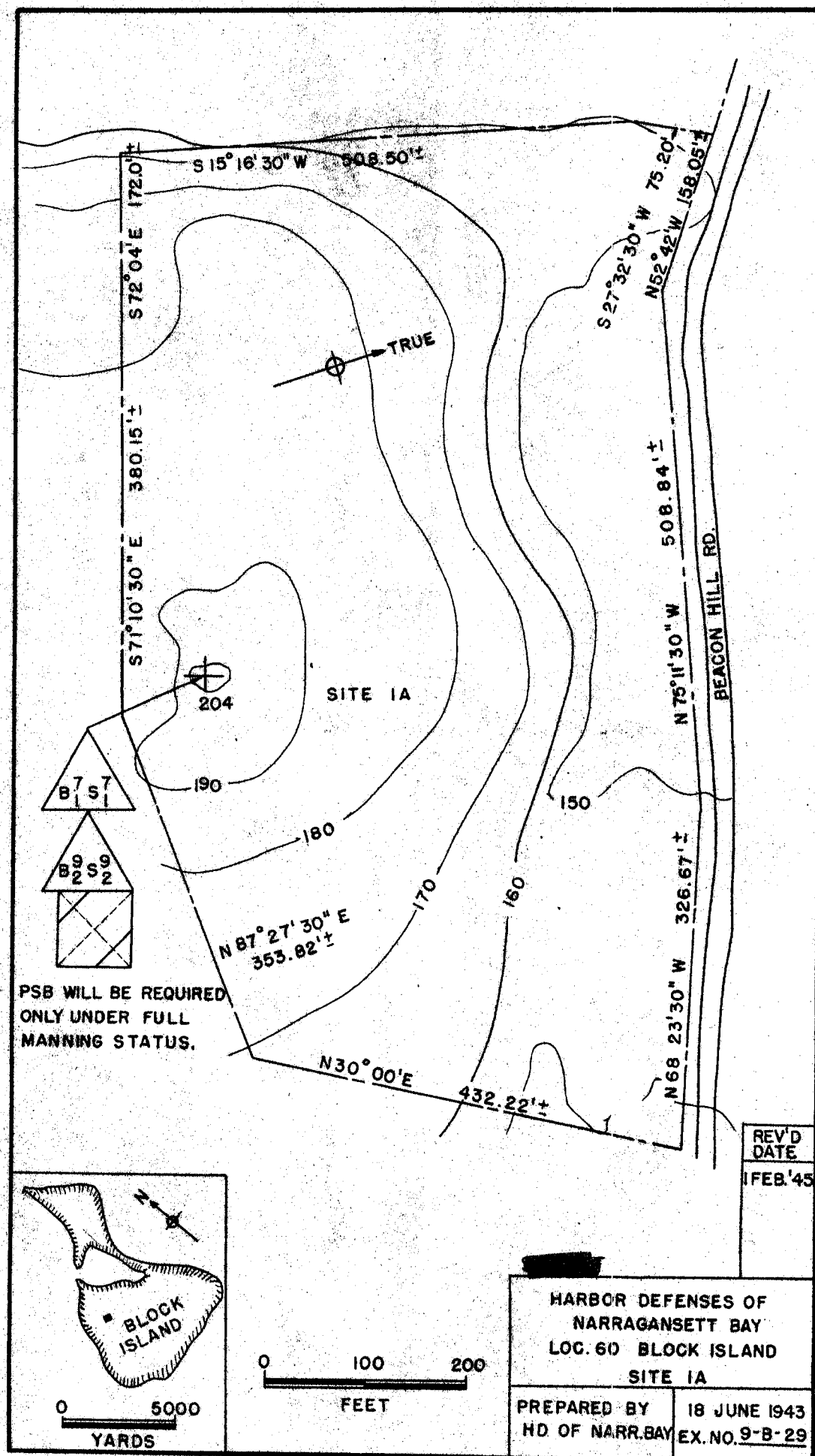
REVIS'D
DATE
1 FEB.,
45

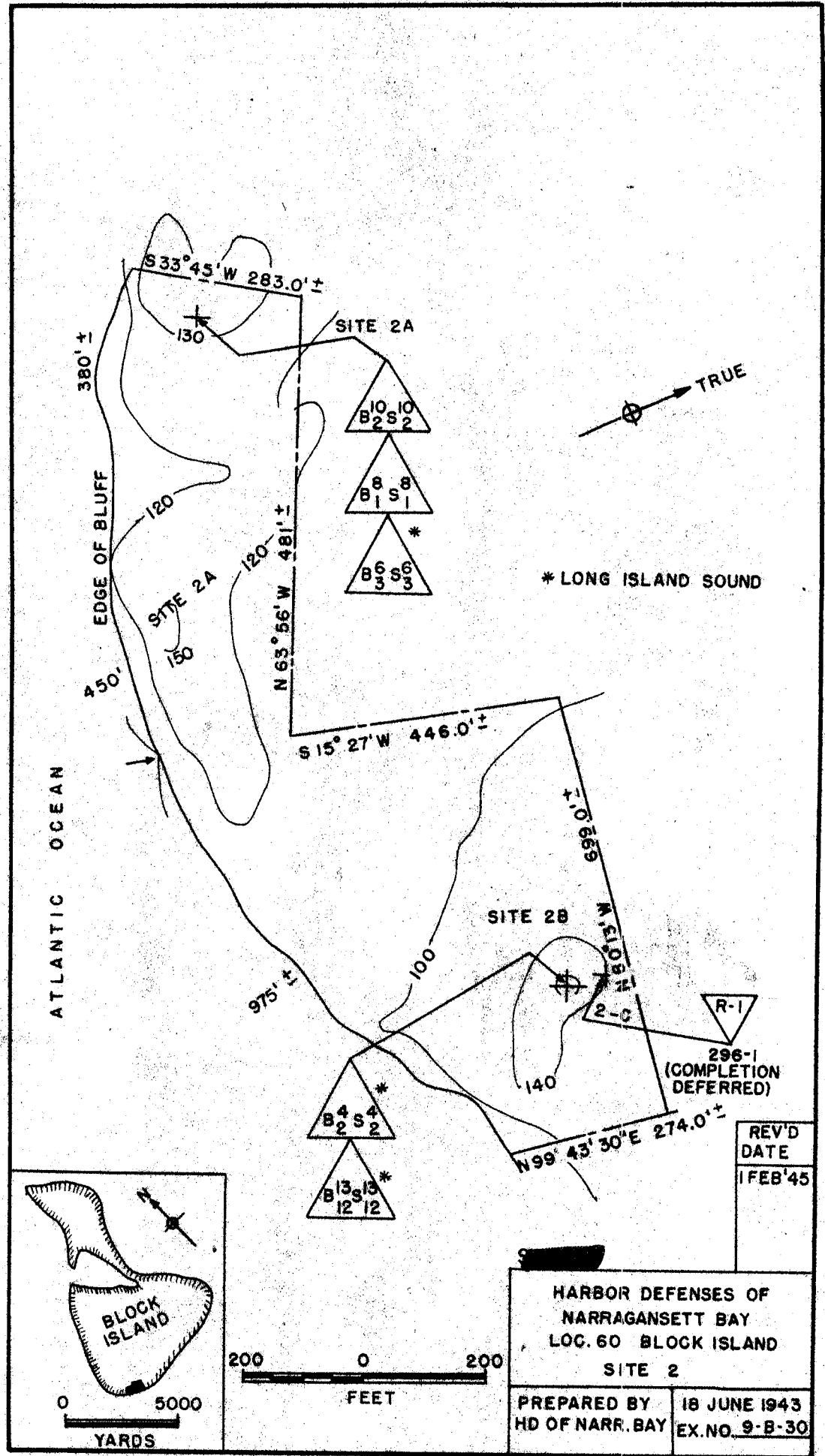
PREPARED BY DATE 7-1-43
H.D.OF NARR. BAY EX. NO. 9B-27

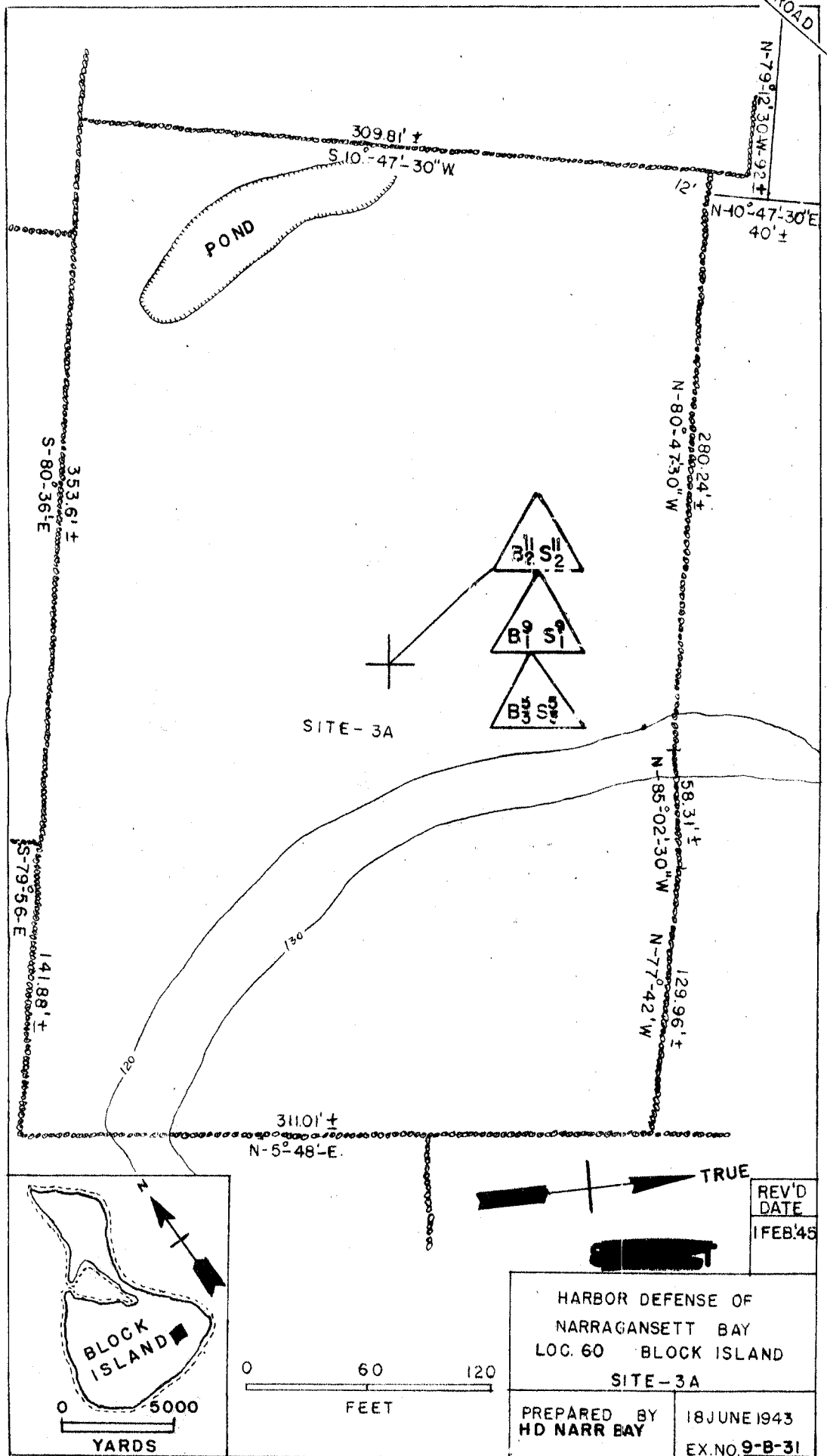


REVISED DATE
1 FEB. '45

HARBOR DEFENSES OF NARRAGANSETT BAY LOC. 59 GAYHEAD	
PREPARED BY H. D. NARR. BAY	15 JUNE 1943 EX. NO. 9-B-28



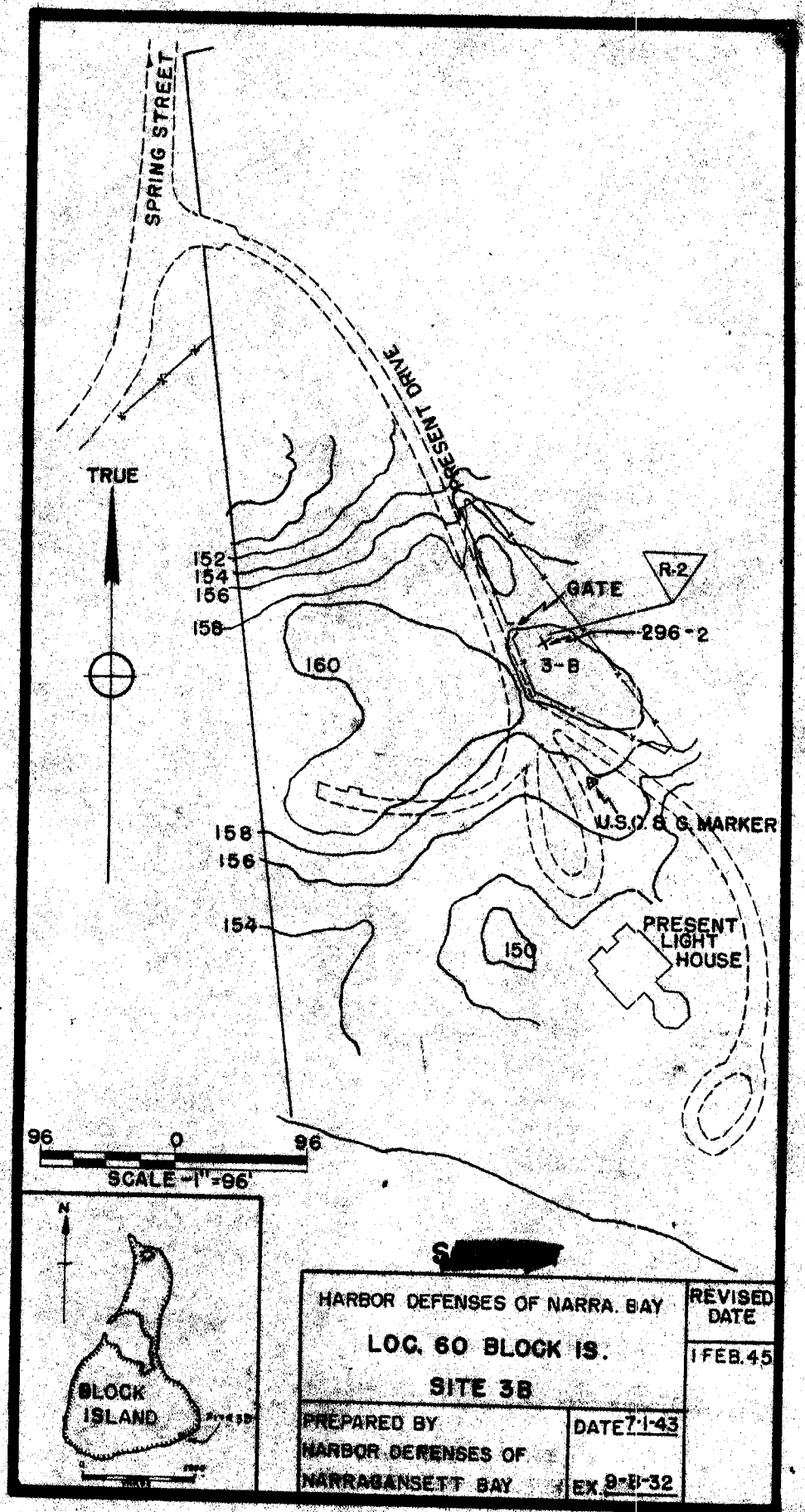




REV'D DATE
1 FEB 45

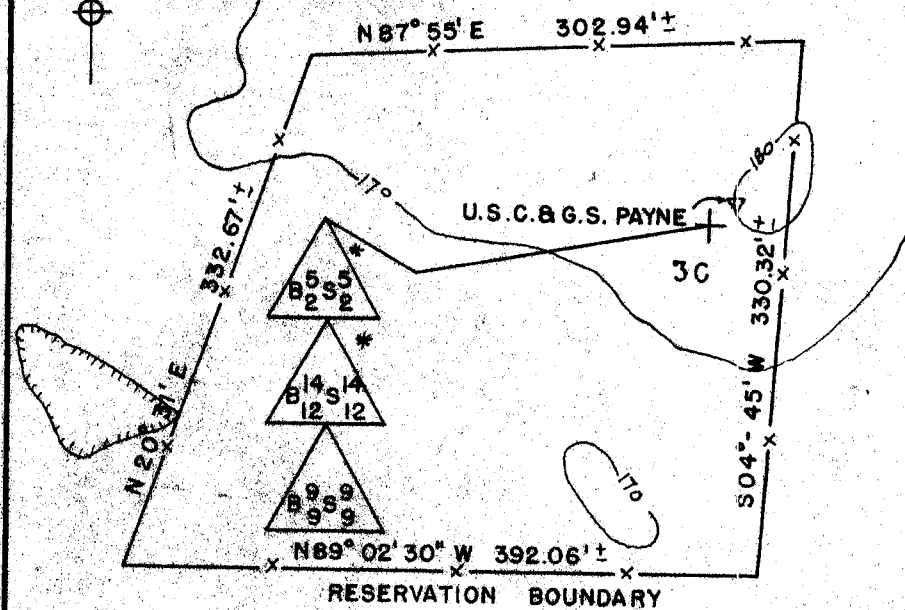
HARBOR DEFENSE OF NARRAGANSETT BAY LOC. 60 BLOCK ISLAND SITE-3A	
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PREPARED BY HD NARR BAY	18 JUNE 1943 EX. NO. 9-B-31
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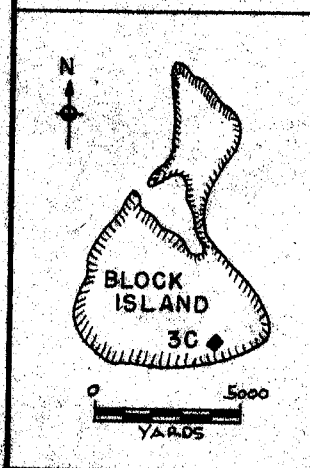


HARBOR DEFENSES OF NARRA. BAY		REVISED DATE
LOG. 60 BLOCK IS.		1 FEB. 45
SITE 3B		
PREPARED BY	DATE 7-1-43	
HARBOR DEFENSES OF NARRAGANSETT BAY	EX 9-8-32	

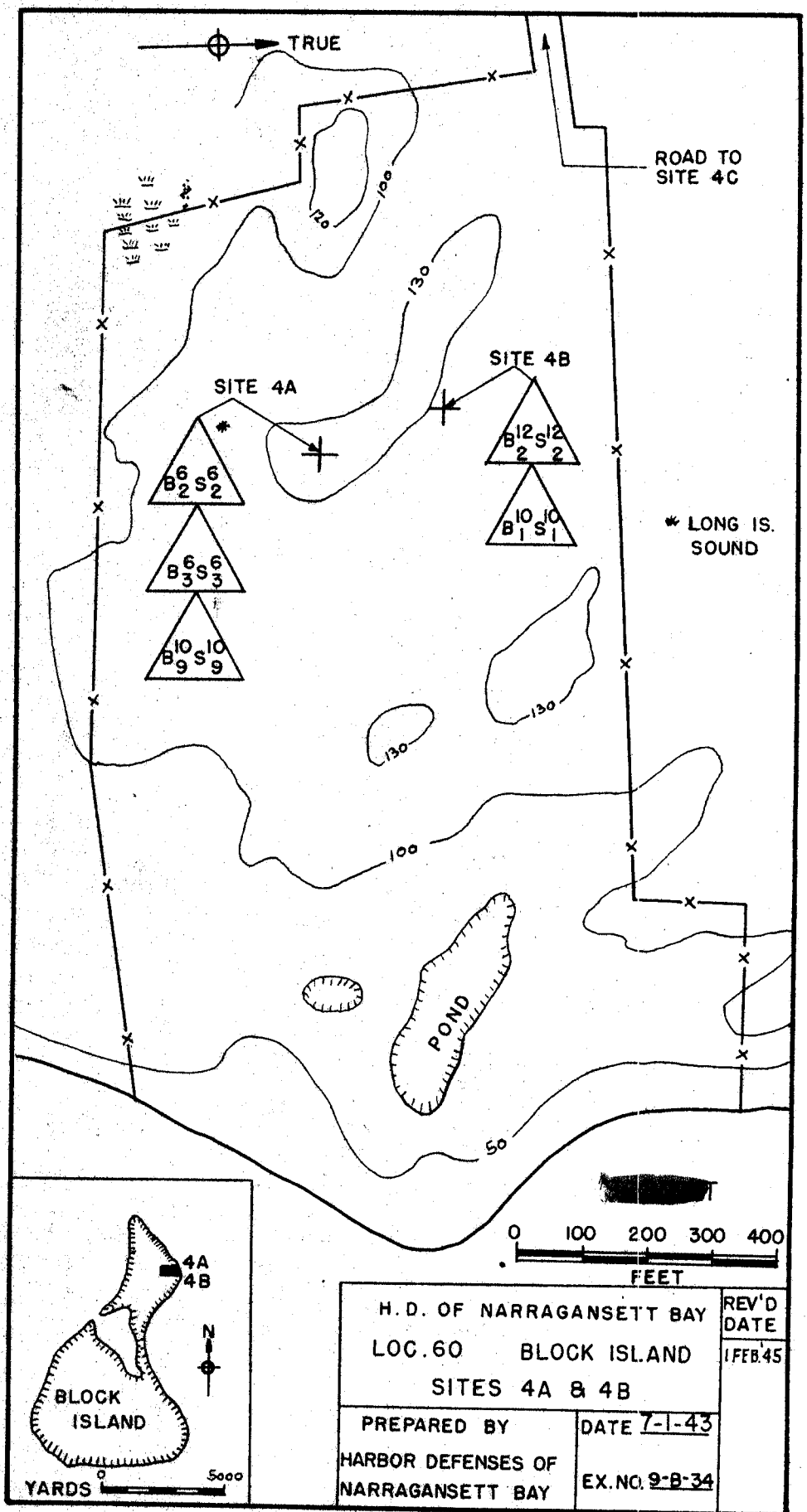
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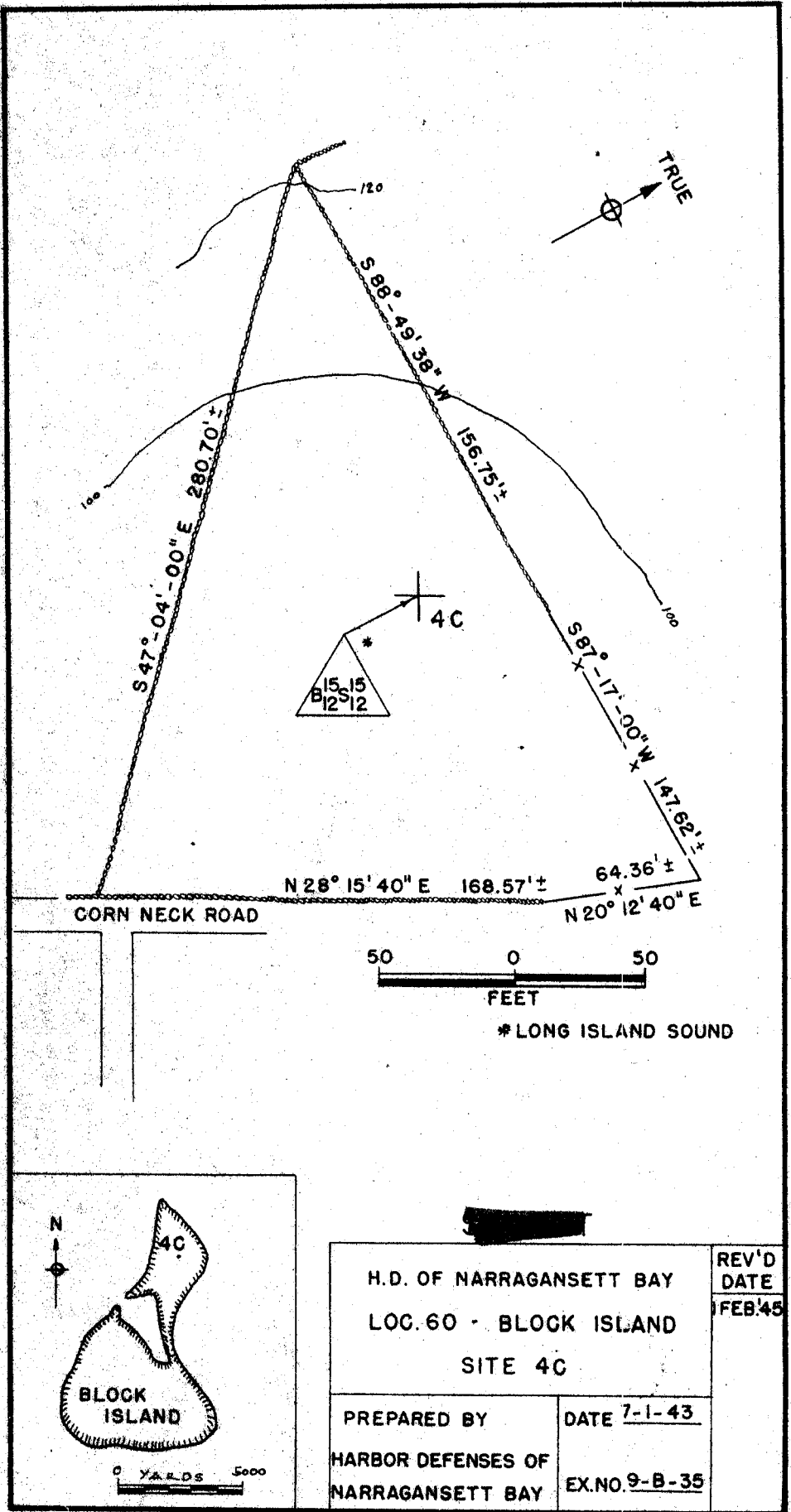


* LONG ISLAND SOUND



H.D. OF NARRAGANSETT BAY		REVISED
LOC. 60 BLOCK ISLAND		DATE
SITE 3C		1 FEB. '45
PREPARED BY	DATE 7-1-43	
HARBOR DEFENSES OF	EX. NO. 9-8-33	
NARRAGANSETT BAY		





ANNEX C

INDEX

- Par. 1 General
- Par. 2 Tactical Organization
- Par. 3 List of Seacoast Searchlights
- Par. 4 Land Acquisition

EXHIBITS

- 1-C Illumination Plan

1. GENERAL:

Paragraph 6, 4th Indorsement, Headquarters, Army Service Forces, SPRMS 660.2(22 June 43), 30 August 1943, on letter, Headquarters, New England Sector 470.3, 22 June 1943, subject: "Requirements for Harbor Defenses Searchlights," established a project allowance of one (1) fixed and thirty-six (36) portable searchlights (including three (3) AMTB searchlights).

Letter, Office Chief of Engineers, SPEPR, 28 February 1944, subject: "Replacement of Fixed-Type Searchlights Installed in Harbor Defenses" and letter, War Department, AGO, AG 470.3 (11 Apr 44) OB-S-E, 14 April 1944, same subject which authorized salvage and replacement of fixed searchlights by portable searchlight units.

Atmospheric conditions are such in the Harbor Defenses of Narragansett Bay that dependable range of seacoast searchlights is normally 8,000 yards. During periods of extremely favorable conditions ranges up to 12,000 yards can be obtained.

2. TACTICAL ORGANIZATION:

Lights are under the tactical control of the Group Commanders as shown in the accompanying tabulation. Group commanders can delegate control of particular lights to battalion and separate batteries under their control.

SEACOAST SEARCHLIGHTS											
TAC NO.	LOC NO.	TACT ASGMT.	TYPE	TYPE OF EMPLACEMENT	GROUND ELEVATION	HEIGHT OF TOWER	CONTROL LOCATION	POWER PLANT		LOC NO.	LOC. NO. OF SHELTER
								TYPE	LOC NO.		
1	29	C-1	P	Tower	20	38	At Light	P	29	32	
2	29	C-1	P	Tower	20	38	"	P	29	32	
3	30	C-1	P	Tower	20	38	"	P	30	32	
4	30	C-1	P	Tower	20	38	"	P	30	32	
5	32A	C-1	P	Tower	10	38	"	P	32A	32	
6	32A	C-1	P	Tower	10	38	"	P	32A	32	
7	33	C-1	P	Tower	20	38	"	P	33	32	
8	33	C-1	P	Tower	20	38	"	P	33	32	
9	34A	C-2	P	Tower	20	50	"	P	34A	37	
10	34A	C-2	P	Tower	25	38	"	P	34A	37	
11	36	C-2	P	None	20	-	"	P	36	37	
12	43	C-2	P	None	45	-	"	P	43	43	
13	45	C-2	P	Tower	10	38	"	P	45	44	
14	45A	C-2	P	Tower	20	38	"	P	45A	44	
15	45B	C-2	P	Tower	15	50	"	P	45B	44	
16	45B	C-2	P	Tower	20	38	"	P	45B	44	
17	46	C-3	P	Tower	15	50	"	P	46	44	
18	46	C-3	P	Tower	15	50	"	P	46	44	
19	48	C-3	P	Tower	5	50	"	P	48	47	
20	49	C-3	P	Tower	5	38	"	P	49	47	
21	50	C-3	P	Tower	5	50	"	P	50	47	
22	50	C-3	P	Tower	20	50	"	P	50	47	
23	57	C-3	P	None	40	-	"	P	57	47	
24	57	C-3	P	None	40	-	"	P	57	47	
25	59	C-3	P	None	80	-	"	P	59	47	
26	59	C-3	P	None	80	-	"	P	59	47	
27	60-4	C-1	P	None	90	-	"	P	60-4	43	

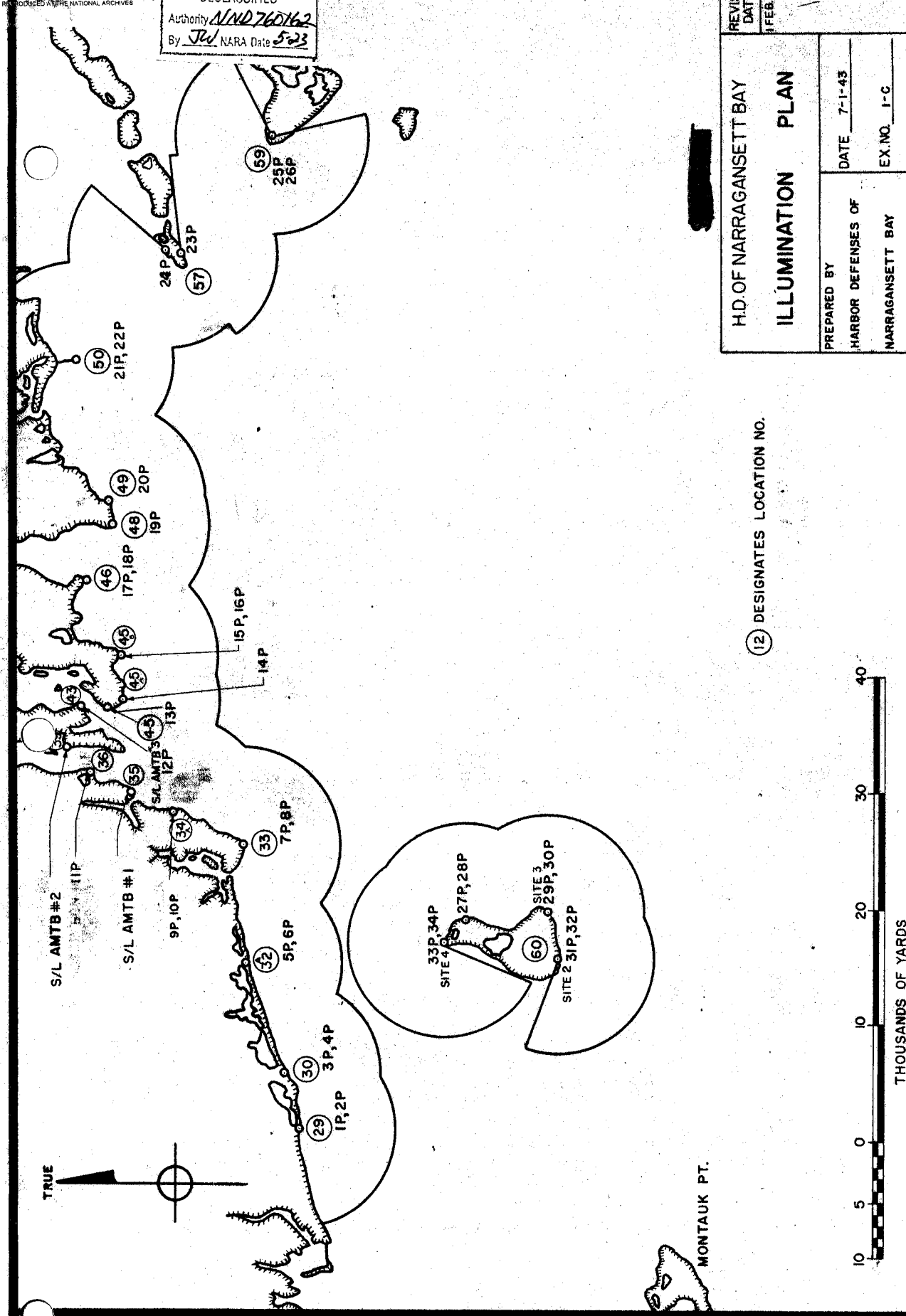
Par. 3

SEACOAST SEARCHLIGHTS										
TAC NO.	LOC NO.	TACT ASGMT.	TYPE	TYPE OF EMPLACEMENT	GROUND ELEVATION	HEIGHT OF TOWER	CONTROL LOCATION	POWER PLANT		LOC. NO. OF SHELTER
								TYPE	LOC NO.	
28	60-4	C-1	P	None	90	--	At Light	P	60-4	43
29	60-3	C-1	P	None	50	--	"	P	60-3	43
30	60-3	C-1	P	None	50	--	"	P	60-3	43
31	60-2	C-1	P	None	80	--	"	P	60-2	44
32	60-2	C-1	P	None	80	--	"	P	60-2	44
33	60-4	C-1	P	None	40	--	"	P	60-4	44
34	60-4	C-1	P	None	40	--	"	P	60-4	44
AMTB 1	35	AMTB-1	P	None	10	--	"	P	35	37
AMTB 2	39	AMTB-2	P	None	20	--	"	P	39	43
AMTB 3	43	AMTB-3	P	None	45	--	"	P	43	43

4. LAND ACQUISITION:

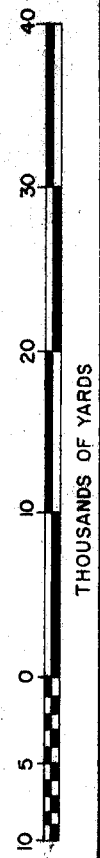
No land required; trespass rights are sufficient for occupancy of outlying positions not on government property.

Authority *NND 760162*
By *JW*, NARA Date *5-23*



H.D. OF NARRAGANSETT BAY	
REVISED	DATE
1 FEB.	7-1-43
ILLUMINATION PLAN	
PREPARED BY	DATE
HARBOR DEFENSES OF	EX. NO.
NARRAGANSETT BAY	1-C

12 DESIGNATES LOCATION NO.



[REDACTED]

A N N E X D

INDEX

- Par. 1 Authority for Underwater Defense Projects.
- Par. 2 Controlled Submarine Mine Project.
 - a. Underwater Portion of Defense.
 - b. Submarine Mine Flotilla.
- Par. 3 Shore Facilities.
- Par. 4 Mine Field Protection.
- Par. 5 Storage of Mine Explosives.
- Par. 6 Land Acquisition.

EXHIBITS

- 1-D Underwater Facilities.
- 2-D Shore Facilities.

[REDACTED]

1. AUTHORITY FOR UNDERWATER DEFENSE PROJECTS:

Letter, "Proceedings Local Joint Planning Committee Mine Defenses of Narragansett Bay", dated December 12, 1942, Headquarters New England Sector, file 381. Approved by the Secretary of War in 6th Indorsement dated March 20, 1943, file AG 660.3(12-23-42)OB-S.

6th Indorsement, War Department, AGO, AG 660.3(8 Mar 44) OB-S-E, 31 March 1944 on letter, Headquarters, Harbor Defense of Narragansett Bay, 476, 8 March 1944, subject: "Ground Mine Project", authorizes holding in abeyance the planting of the seaward line of mines in the East Passage.

2. CONTROLLED SUBMARINE MINE PROJECT:

- a. Underwater Portion of Defense.

The underwater defenses of Narragansett Bay are as shown in Exhibit 1-D. The project provides for 16 groups of M4 ground mines. The planting of the seaward line of mines in the East Passage is held in abeyance pursuant to authority referred to in Par. 1 above. The depths of water as shown in Exhibit 1-D are in feet, and represent the depth of mines at mean low water. The Naval magnetic detector loops shown on Exhibit 1-D are directly connected with the HECF at Fort Burnside.

Per. 2b

SUBMARINE MINE FLOTILLA						
TYPE VESSEL	PRO- JECT REQ.	NO. ON HAND	NAME	LENGTH	BEAM	DRAFT
Mine Planter	1	1	US AMP BAIRD	172'	32'	12'
D. B. Boat	2	3	L - 81	64'	18'	6'
			L - 82	64'	18'	6'
			L - 83	64'	18'	6'
Mine Yawl.	8	5	M - 300	30'	8'	3'
			M - 352	26'	8'	3½'
			M - 365	26'	8'	3½'
			M - 366	26'	8'	3½'
			M - 462	26'	8'	3½'

3. SHORE FACILITIES:

a. Wharves, Channels, Turning Basins.

There is one wharf at Fort Wetherill which serves both mine fields. It has ample room for handling mines. Channels and turning basins shown on Exhibit 2-D.

b. (1) The small boat basins at Fort Wetherill and Fort Adams are ample for all DB boats and yawls.

(2) The boat house at Fort Adams has storage and repair space for 3 mine yawls.

c. The loading room is at Fort Wetherill and serves both mine fields. It is a permanent structure built in 1911 and is 23' wide, 46' long, and 11' high. Capacity for M4 ground mines is not ample but it can be used satisfactorily.

d. There are two store houses located as shown on Exhibit 2-D at Fort Wetherill. One, a permanent brick structure, was built in 1909, and is a two-story building. It is 30' wide and 100' long. The other is a one-story building, constructed in 1940, and is 40' wide, 126' long. Equipment is available for handling the M4 ground mines. There is sufficient storage capacity for all equipment with the exception of the mine cases.

e. Storage magazines are provided in the casemates of abandoned batteries at Fort Wetherill, Fort Getty, and Fort Greble. The combined capacity of storage facilities is 575,000# of mine explosives. The approved project provides for 16 groups and 810,000 pounds of TNT.

f. A new bombproof casemate now provides for a total of 20 groups and the complete project requires 16 groups. The casemate is of sufficient capacity.

g. Cable huts are of sufficient capacity and conveniently located to provide for the most efficient use of the shore cable.

h. Mine plotting rooms are of sufficient size and are satisfactory.

i. G-4 comprising both mine batteries is in a splinterproof structure. All mine battalion and mine observation stations are splinterproof. Coordinates and information regarding stations are shown in Annex B, Pages 6, 23, and 24.

4. MINE FIELD PROTECTION:

a. The mine fields in the East Passage are covered by the field of fire of 2-3" batteries directly under the command of the mine battalion commander. The three AMTB batteries are so located that the fields of fire of AMTB #1 and #2 cover the mine fields in the West Passage and the field of fire of AMTB #3 covers the mine fields in the East Passage. The 3" AA fixed battery at Fort Adams is sited and equipped to fire on water-borne targets and its field of fire covers the mine fields in the East Passage.

b. The searchlight plan provides for adequate illumination of the mine fields and is coordinated with the gun defense.

5. STORAGE OF MINE EXPLOSIVES:

The casemate of abandoned Battery Cooke at Fort Wetherill has storage capacity for 15,200# of mine explosive.

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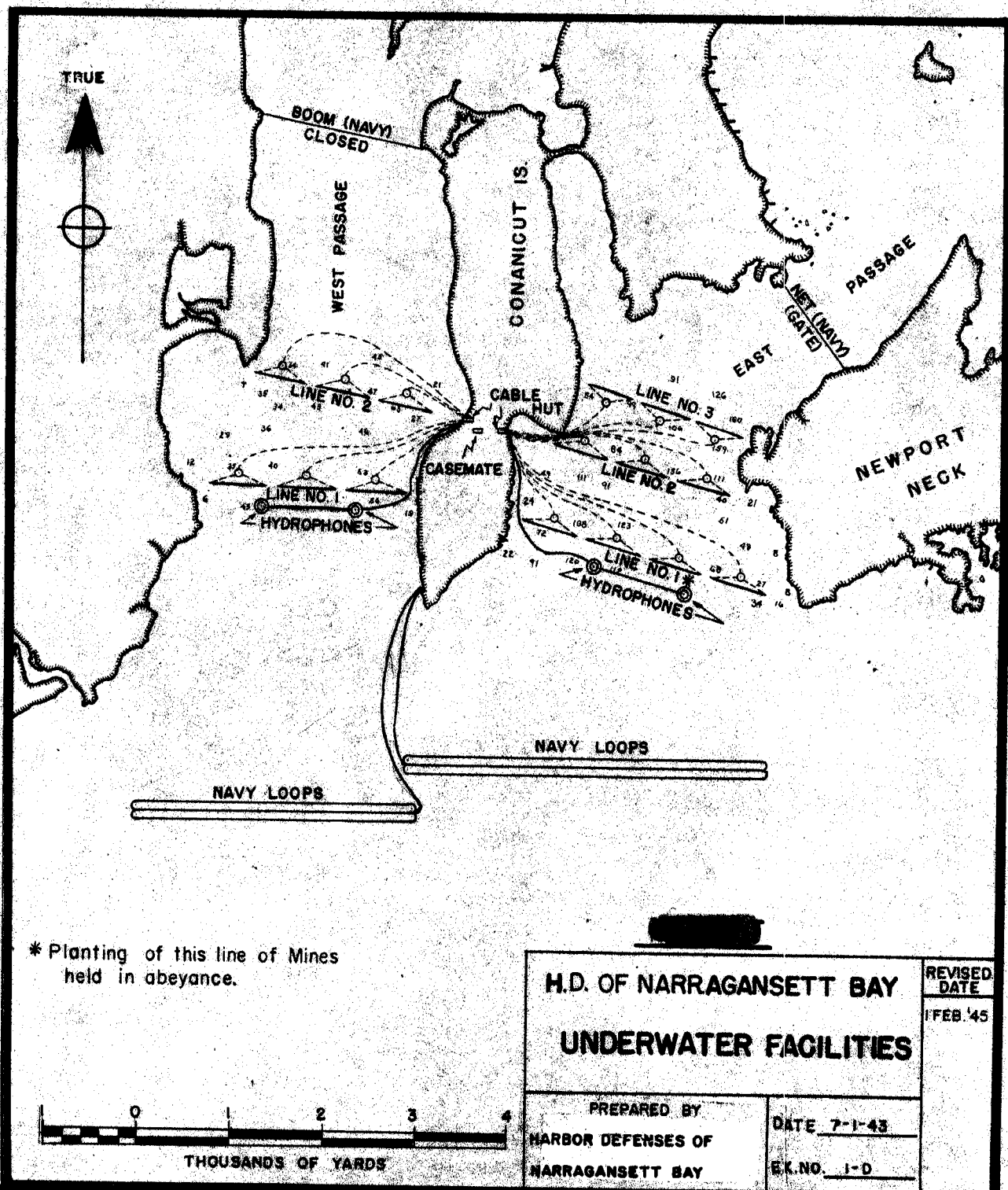
The casemate of abandoned Battery Toussard at Fort Getty has storage capacity for 187,500# of explosive.

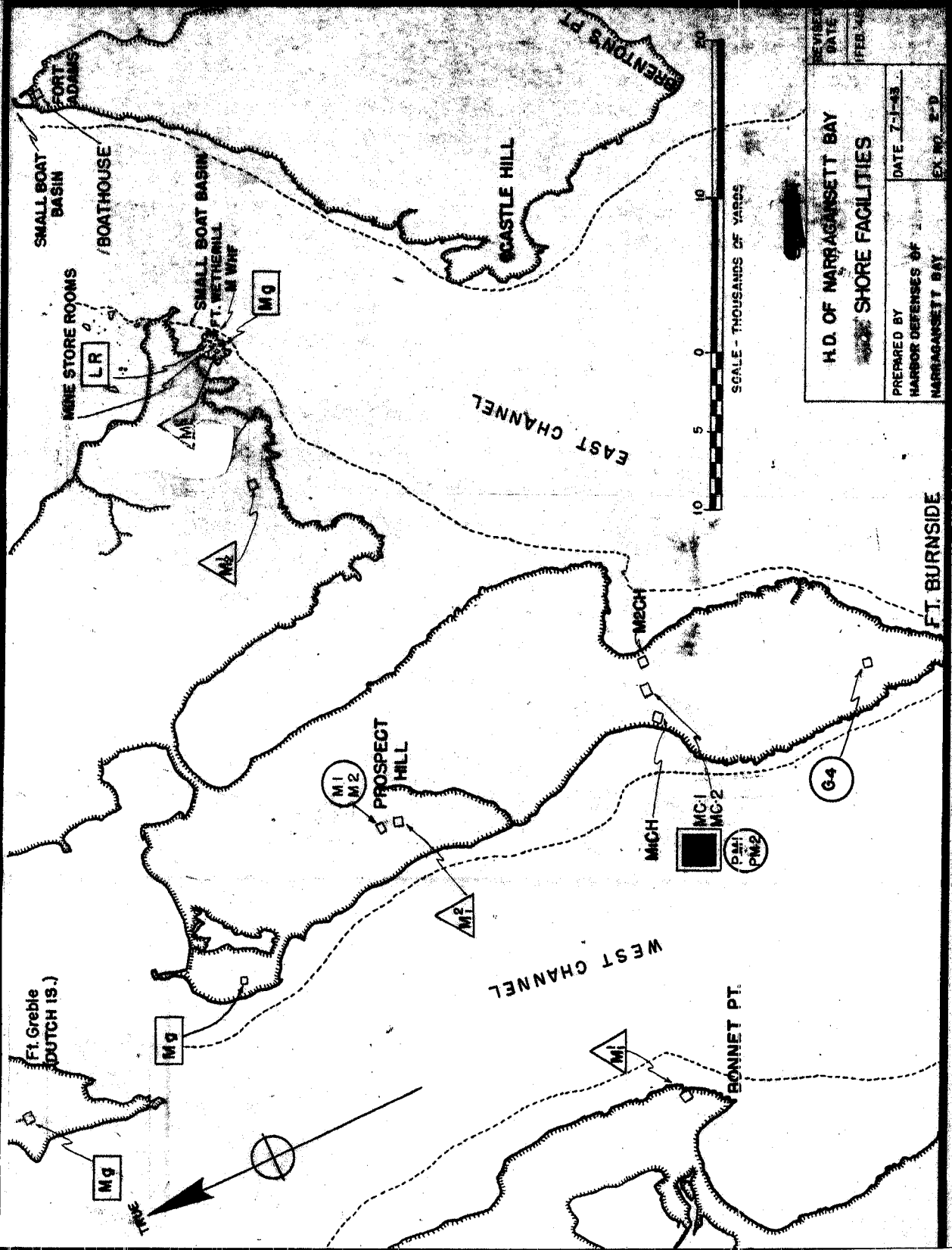
The casemate of abandoned Battery Mitchell at Fort Greble has storage capacity for 372,200# of explosive.

All explosives are stored in accordance with TM 9-1900. No War Department authority has been obtained to depart from storage regulations for wartime conditions.

6. LAND ACQUISITION:

No real estate is required.





H.D. OF NARRAGANSETT BAY		REVISION DATE	DATE 7-1-43
SHORE FACILITIES		PREPARED BY	EX NO. 2-D
		HARBOR DEFENSES OF	
		NARRAGANSETT BAY	

~~SECRET~~
ANNEX E

INDEX

- Par. 1 Tactical Organization.
- Par. 2
 - a. Relations to Higher Echelon AAIS and AWS.
 - b. Estimated Reinforcements Required.
- Par. 3 Gun Defense.
- Par. 4 Searchlights.
- Par. 5 Automatic Weapons Defense.
- Par. 6 AAIS.
- Par. 7 Fire Control Telephone Net.
- Par. 8 Radio Net.
- Par. 9 Storage Facilities.
- Par. 10 Major Items of Equipment.
- Par. 11 Ammunition.
- Par. 12 Land Acquisition.

EXHIBITS

- 1-E AA Tactical Organization.
- 2-E AA Fields of Fire and Illumination.
- 3-E AAIS.
- 4-E AA Fire Control Telephone Net.
- 5-E AA Radio Net.
- 6-E Automatic Weapons Defense 40mm Guns.

1. TACTICAL ORGANIZATION:

Tactically the Harbor Defenses of Narragansett Bay antiaircraft batteries and searchlights are controlled as shown in the Antiaircraft Tactical Organization Exhibit No. 1-E.

The antiaircraft command post is in the Harbor Defense Command Post and comes under the Harbor Defense Commander for all other operations.

As a secondary mission, the AA Battalion Gun Batteries are prepared to fire upon water-borne targets. During such a period, the AA Battalion tactically operates directly under the Harbor Defense Commander.

In the event of a combined air and water-borne attack, the Commanding Officer, Harbor Defenses of Narragansett Bay will determine which phase of the attack constitutes the greater threat. The AA Battalion will engage the hostile aircraft or water-borne craft, in accordance with the decision of the Harbor Defense Commander, tactically operating under the appropriate commander.

2. a. Relations to Higher Echelons AAAIS and AWS.

The AA Battalion mans and operates AAAIS stations which are tied into the Newport Sub-operation board, located at the Newport Sub-region Headquarters. AAAIS information is furnished all AA Battalion elements by the sub-operation board, after it is received and filtered. AWS information and AAAIS information from other sub-regions is provided all AA Battalion elements by the Boston Region AAAC, Information Center. This information is repeated to units over the "Hot Loop" which is manned by each unit continuously.

b. Estimated Reinforcements Required.

The Antiaircraft Artillery Command plans call for only incidental defense of harbor defense installations in the Narragansett Bay area. One (four battery) gun battalion with two batteries at Fort Greene and two batteries at Fort Church would be required to protect harbor defense facilities. These gun batteries would require two searchlight batteries. The 40mm guns and .50 cal. M.G.'s as authorized by T O & E 4-260-1 for antiaircraft protection of Seacoast batteries will provide sufficient Automatic Weapons protection. In formulating this plan the three 90mm AMTB batteries and 8-37mm AMTB guns in the harbor defense were taken into consideration in providing antiaircraft defense.

3. GUN DEFENSE:

The AA Gun defense consists of two fixed 3" gun batteries of three guns each. The 3" gun battery previously located at Fort Wetherill is now dismounted and in storage pursuant to 8th Indorsement, WD AGO, AG 660.2 (23 Feb 44) OB-S-E, 10 April 1944, on letter, Headquarters Harbor Defense of Narragansett Bay, 600.1, 23 February 1944 subject: "Request for Construction".

The four mobile AA gun batteries previously authorized for Fort Greene and Fort Church were eliminated by secret letter, WD AGO, dated November 1, 1940, subject: "Revision of Antiaircraft Annex, Harbor Defense Project", file 660.2 AA(10-23-40) M-CCCA.

In accordance with T O & E 4-260-1, C-3 dated 28 September 1944 one SCR-584 or SCR-545 is authorized for each AA Gun Battery.

4. SEARCHLIGHTS:

Under project allowances and T O & E 4-260-1 the following searchlight and associated equipment is authorized:

Searchlight, Portable, AA, 60" complete with power plant and control equipment - 5 per AA fixed gun battery giving a total of 10 for the Harbor Defense.

Radio Set SCR-268 - 3 per Searchlight Platoon giving a total of 6 authorized this Harbor Defense.

Par. 5 Automatic Weapons Defense:

ANTIAIRCRAFT AUTOMATIC WEAPONS					
Tabulation by battery, for allowance of antiaircraft automatic weapons as authorized by T O & E 4-260-1 with changes 1 to 3.					
CALIBER	NO. OF GUNS	BATTERY	LOC.	AMMUNITION	
				BATTLE ALLOWANCE *	STORAGE *
40mm	4	Cons #109	34		
40mm	4	Hamilton	34		
40mm	2	Cons #211	33		
40mm	2	House	35		
40mm	2	Cons #213	41		
40mm	2	Dickenson	43		
40mm	4	Gray	47		
40mm	2	Reilly	47A		
40mm	2	Cons. #212	48		
50 cal MG	4	Cons. #109	34		
50 cal MG	4	Hamilton	34		
50 cal MG	2	Cons. #211	33		
50 cal MG	2	House	35		
50 cal MG	2	Whiting	41		
50 cal MG	2	Cons. #213	41		
50 cal MG	2	Dickenson	43		
50 cal MG	2	Crittenden	43		
50 cal MG	4	Gray	47		
50 cal MG	2	Reilly	47A		
Exhibit 6-E shows Battle Assignment of 40mm AA Guns.					
*NOTE:	See Paragraph 11 Annex E Ammunition will be stored at Battery site in every case.				

ANTIAIRCRAFT AUTOMATIC WEAPONS

Tabulation by battery, for allowance of antiaircraft automatic weapons as authorized by T O & # 4-260-1 with changes 1 to 3.

CALIBER	NO. OF GUNS	BATTERY	LOC.	AMMUNITION	
				BATTLE ALLOWANCE *	STORAGE
50 cal MG	2	Cons. #212	48		
50 cal MG	4	AA #1	44#		
50 cal MG	4	AA #2	44		
50 cal MG	4	AMTB #1	35		
50 cal MG	4	AMTB #2	39		
50 cal MG	4	AMTB #3	43		
50 cal MG	2	1 USAMP			
Exhibit 6-E shows Battle Assignment of 40mm AA Guns.					
*NOTE:	See Paragraph 11 Annex E. Ammunition will be stored at Battery site in every case.				
#NOTE:	AA #1 in storage at Location 44.				

6. ANTIAIRCRAFT ARTILLERY INTELLIGENCE SERVICE:

There are 12 AAAIS observing stations authorized as part of the basic project. Under the present category of defense none of these stations are manned at the present time. However, these stations are always available should they be required. The AAAIS stations are shown in Exhibit 3-E.

7. FIRE CONTROL TELEPHONE NET:

The antiaircraft artillery Fire Control Net is shown on Exhibit No. 4-E. There are sufficient cables in the regular fire control system of the harbor defense to provide intelligence and command lines for the estimated mobile defenses in paragraph 2b above.

8. RADIO NET:

The Antiaircraft Artillery Radio Net is as shown in Exhibit No. 5-E.

9. STORAGE FACILITIES:

Facilities are available for storage of all equipment at Fort Wetherill and Fort Adams.

10. MAJOR ITEMS OF EQUIPMENT:

	<u>Authorized</u>	<u>On Hand</u>	<u>To Be Procured</u>
3" Fixed AA Guns	6	6	-
.50 cal MG	8	8	-
SCR-268 (w/3" AA Guns)	2	2	-
SCR-268 (w/Searchlights)	6	4	2
Searchlight, Portable 60"	10	10	-
.30 cal MG (w/Searchlights)	20	20	-
Finder, Height, M1 or M2	2	2	-
Radio Set SCR-284 or 692	13	-	13
Director AA M7	3	1	2
Radio Set SCR-543	4	4	-
Radio Set SCR-593	3	3	-

11. AMMUNITION:

Current ammunition allowances are authorized by letter, Headquarters, Eastern Defense Command, file ORD 471/711 subject: "Combat Levels of Ammunition for Ground Units of the Eastern Defense Command in the Continental United States", dated 10 August 1944.

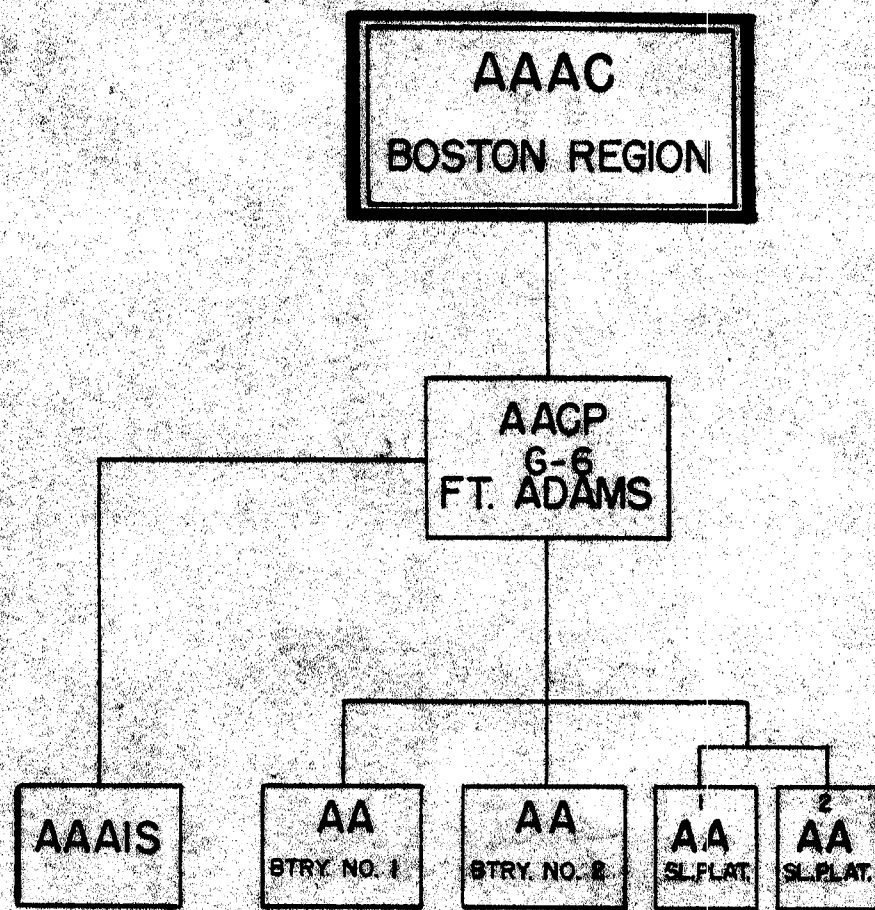
Ammunition storage for each of the AA batteries is as follows:

a. Although no combat ammunition is now on hand, the ammunition for AA #1 (now in storage) could in all probability be suitably stored in existing magazines of this Harbor Defense. However, this would depend on the future location of this battery.

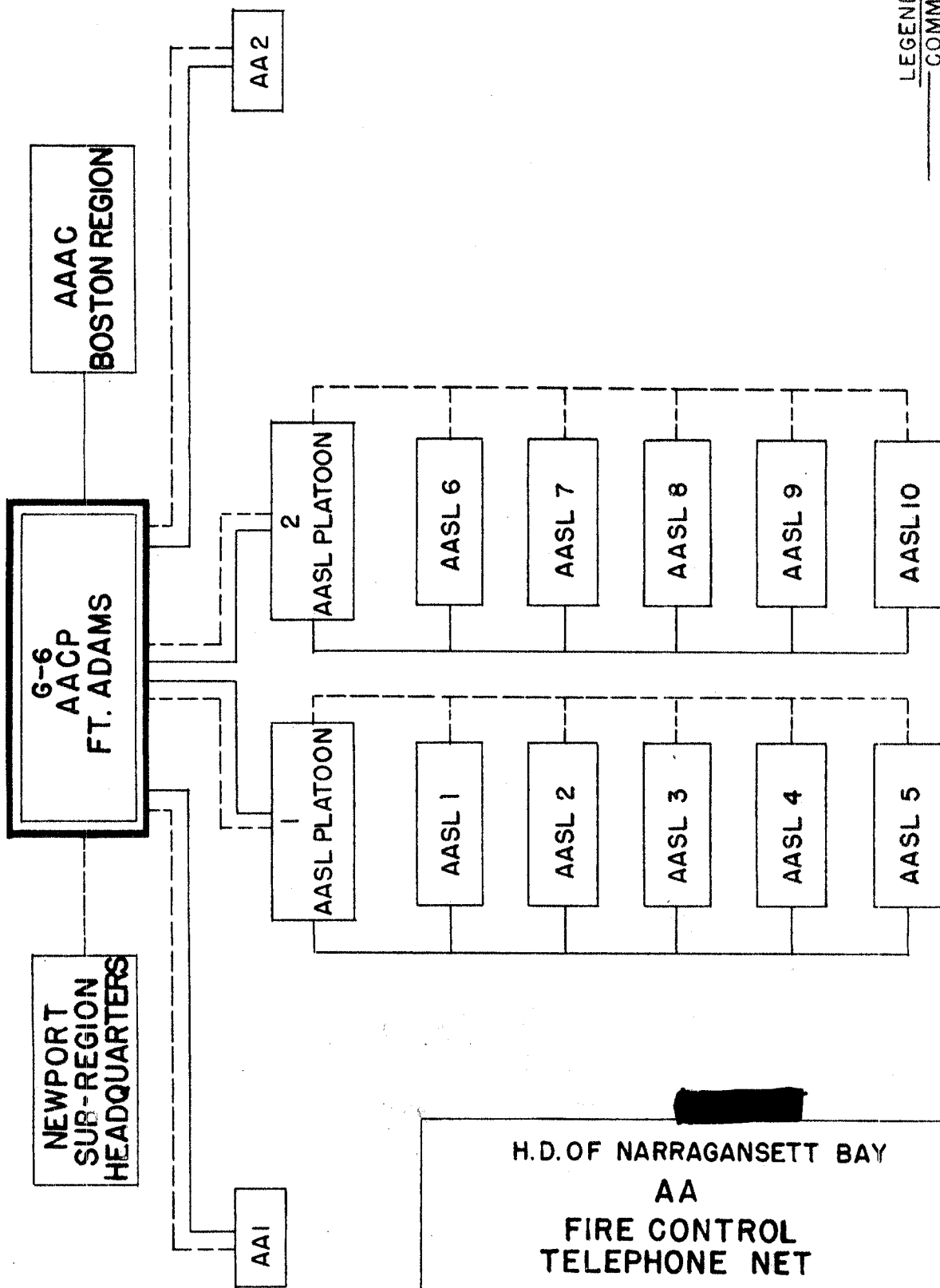
b. Although no combat ammunition is now on hand, the ammunition for AA #2 could be suitably stored in the barricaded rooms of the Redoubt Tower at Fort Adams under provisions of Par. 116 b (1) and (2) TM 9-1900, dated 3 July 1942.

12. LAND ACQUISITIONS:

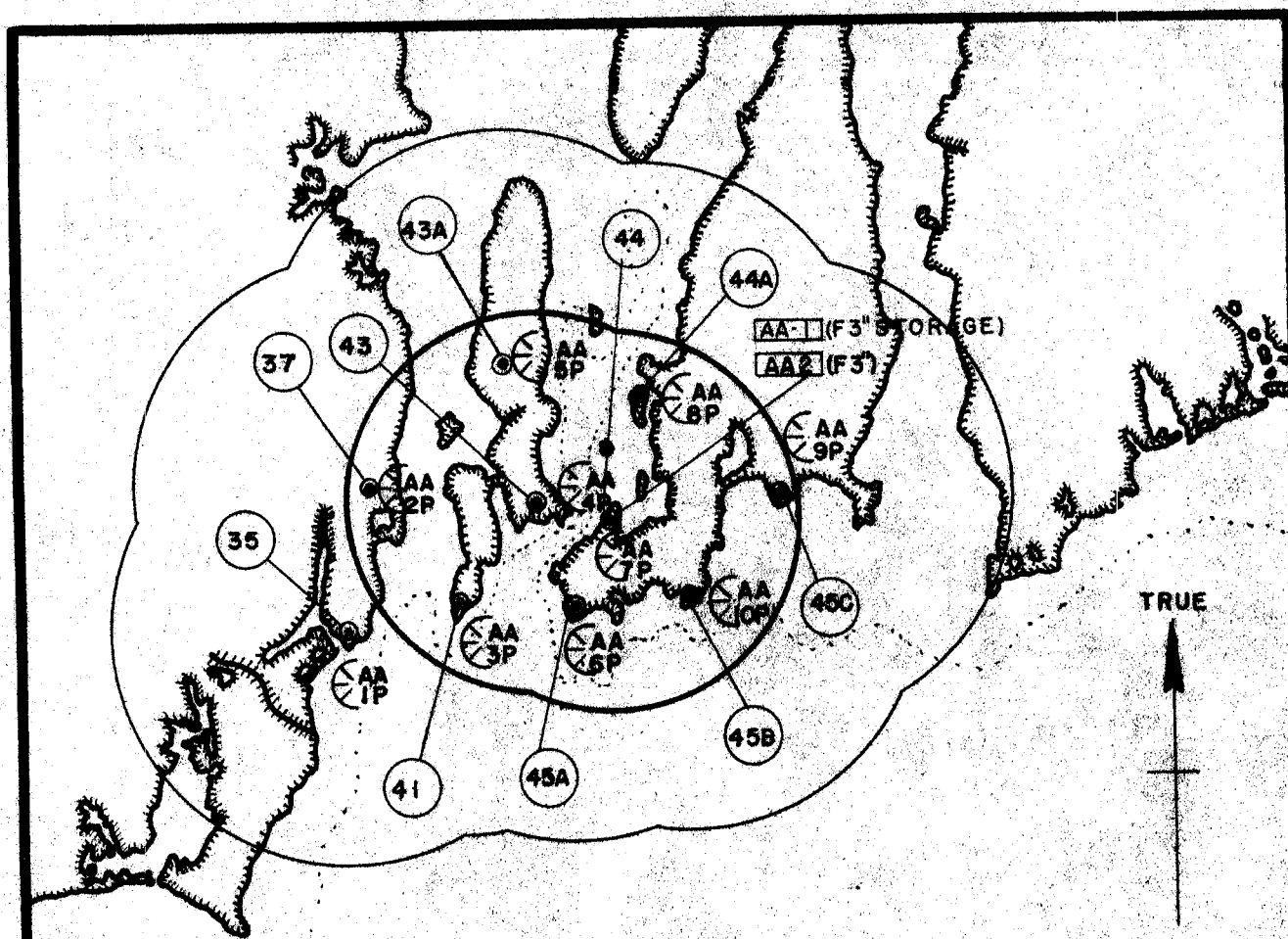
None required.



H.D. of NARRAGANSETT BAY		REVISED DATE
AA TACTICAL ORGANIZATION		FEB '45
PREPARED BY	DATE 7-1-43	
HARBOR DEFENSES OF NARRAGANSETT BAY	EX. NO. 1-E	



H.D. OF NARRAGANSETT BAY AA FIRE CONTROL TELEPHONE NET		REVISED DATE
		1 FEB. '45
PREPARED BY HARBOR DEFENSES OF NARRAGANSETT BAY	DATE. 7-1-43 EX. NO. 4-E	



NOTE

(41) = LOCATION NUMBER OF SITE

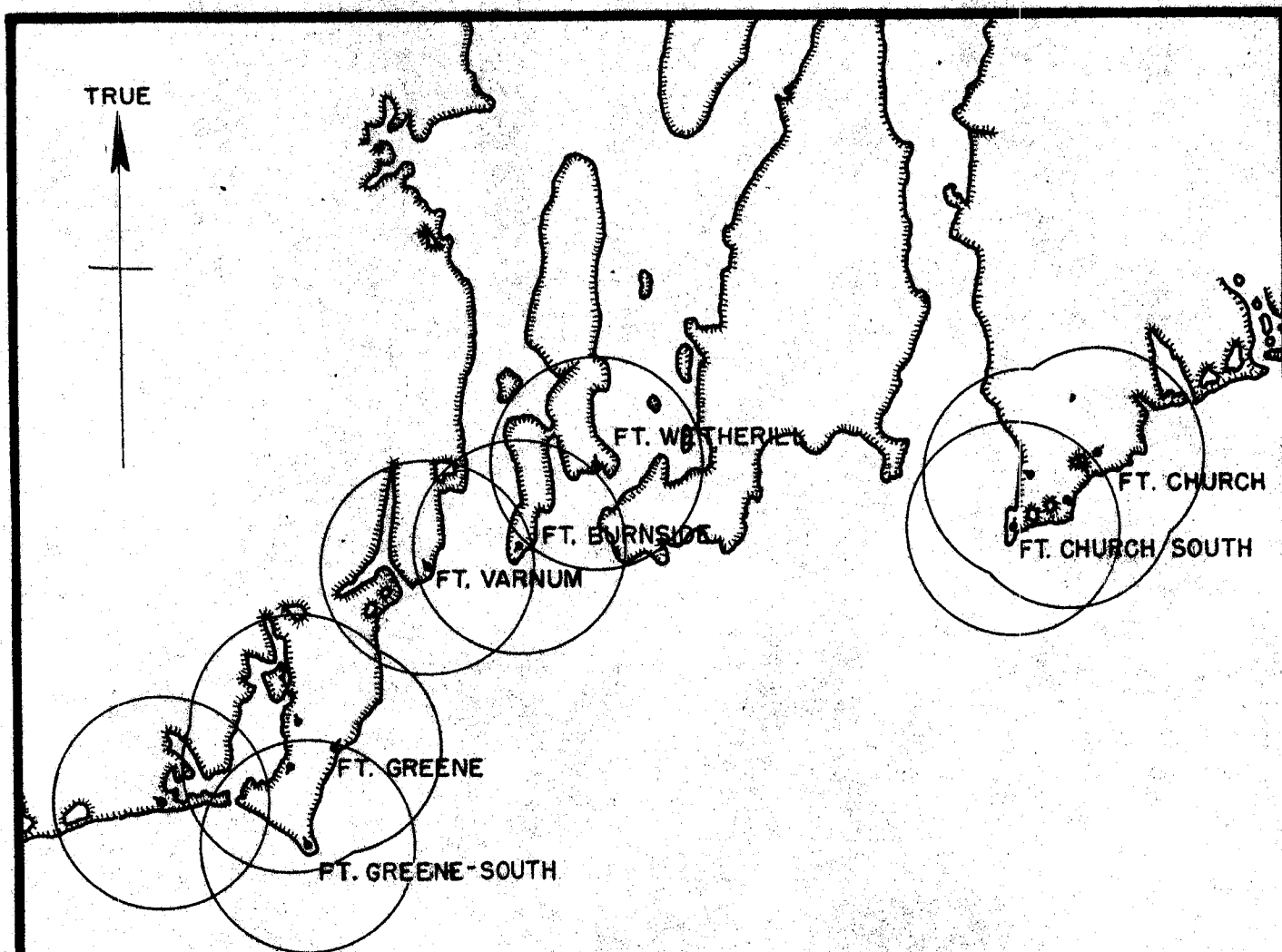


**H. D. OF NARR. BAY
FIELDS OF FIRE
AND
ILLUMINATION**

**REVISED
DATE
1 FEB. '45**

**PREPARED BY
HARBOR DEFENSES OF
NARRAGANSETT BAY**

**DATE 7-1-43
EX. NO. 2-E**



NOTE

EACH SYMBOL REPRESENTS
2-40 MM. AA GUNS
RANGE 4,000 YARDS



**H.D. OF NARRAGANSETT BAY
AUTOMATIC WEAPONS
DEFENSE
40 mm. GUNS**

REVISED
DATE
1 FEB. '45

PREPARED BY
HARBOR DEFENSES OF
NARRAGANSETT BAY

DATE 7-1-43
EX. NO. 6-E

ANNEX G

INDEX

Par. 1 Authorities.

EXHIBITS

- 1-G Consolidated Summary of Harbor Defense Elements.
- 2-G Consolidated Summary of Battery Installations.
- 3-G Consolidated Summary of Major Items of Equipment.

1. AUTHORITIES:

Equipment requirements are computed from T O & E 4-260-1, dated 11 April 1944; Changes No. 1, dated 15 June 1944; Change No. 2, dated 26 August 1944; Change No. 3, dated 28 September 1944.

CONSOLIDATED SUMMARY OF HARBOR DEFENSE ELEMENTS
HARBOR DEFENSES OF NARRAGANSETT BAY

1 February 1945
(Date)

INSTALLATION	NUMBER
H. D. Command Post	1
H. D. Observation Post	1
Harbor Entrance Control Post	1
Group Command Post	3
Group Observation Post	3
Long Range Battalion Command Post	2
Other Gun Battalion Command Post	3
Antiaircraft Gun Battalion Command Post	1
H. D. Searchlight Battery	3
(5 AA Lights per Platoon)	
Antiaircraft Searchlight Platoon	2
H. D. & Fort Signal Station	1
Forts *	9
Fire Control Switchboard Installations	9
Searchlight Command Post	0
Meteorological Station	1
Mine Battalion Command Post	1
Mine Plotting Room	2
Mine Casemate	2
Mine Planters	1
D. B. Boats	2
Mine Yawls	8
Group of Mines, Ground	16
Portable Seacoast Searchlights	37
Portable Antiaircraft Searchlights	10
Searchlight Oper. (Cont.) Post (p)	37
SCR - 582	1

* Forts Greene, Varnum, Burnside, and Church FORM # 15
have combination Battalion or Group and fort command
posts for purpose of computing requirements under
T O & E 4-260-1.

CONSOLIDATED SUMMARY OF BATTERY INSTALLATIONS

HARBOR DEFENSES OF NARRAGANSETT BAY

WITHOUT DATA COMPUTERS

1	2	3	4	5	6	7	8	9
BATTERY	FLANK OBS. STA. 90°	OTHER OBS. STA. 125°	OBS. STA. NOT INCL. IN 2 & 3	BC STA.	SPOT- TING STA.	MAGA- ZINES	BATRY. POWER PLANT	SCR- 296
House	0	0	2	1	2	1*	1	1
Whiting	0	0	0	1	0	1*	0	0
Dickenson	0	0	2	1	2	1*	1	1
Crittenden	0	0	0	1	0	1*	0	0
AMTB #1	0	0	0	1	0	1*	1*	0
AMTB #2	0	0	0	1	0	1*	1*	0
AMTB #3	0	0	0	1	0	1*	1*	0
Mine Btry #1	1	0	1	1	0	1	0	0
Mine Btry #2	1	0	1	1	0	1	0	0

FORM # 14.

- 4 -

Exhibit 2-G-1

* Not considered in calculation of Signal Equipment requirements under T O & E 4-260-1.

CONSOLIDATED SUMMARY OF BATTERY INSTALLATIONS

HARBOR DEFENSES OF NARRAGANSETT BAY

WITH DATA COMPUTERS

1	2	3	4	5	6	7	8	9
BATTERY	FLANK OBS. STA. 90'	OTHER OBS. STA. 125'	OBS. STA. NOT INCL. IN 2 & 3	BC STA.	SPOT- TING STA.	MAGA- ZINES	BATRY POWER PLANT	SCR- 296
Cons. #109	1	3	6	1*	10	2	1	1
Hamilton	0	3	9	1*	12	2	1	1
Cons. #211	1	2	3	1	6	1	1	1
Cons. #213	1	0	4	1*	5	1	1	1
Gray	2	3	5	1	10	2	1	1
Reilly	1	0	5	1	6	1	1	1
Cons. #212	1	0	5	1	6	1	1	1

Exhibit 2-G-2

TABLE OF HARBOR DEFENSE ALLOWANCES OF SIGNAL ITEMS

TYPE OF INSTALLATIONS	SEARCHLIGHT		MINE		BASE END STA		H.C. CONTR. PST		H.O. CONTR. PST		H.O. COMD. POST		SCR. 29.6		NET STA		SIG. STA		MAG. STA		PER APPD. PROJ.		TOTAL	
	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40
1. BELL, MC-9	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2. BELL, MC-13	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3. BOX, MC-63	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4. CASE, C3119 OR C3120	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5. CHEST, SET, TD-3	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6. CONVERTER, M-209	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7. COR., O-114-A	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
8. GLOVES, PA-46	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
9. COORD. CO-424	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
10. FLAG, MC-13	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11. FLASH, ST. M-20-B	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12. FREQUENCY METER, SET, SBR-111	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
13. GLOVES, LU-9	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
14. HANDSET, TB-12	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15. HEADSET, NS-30	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
16. HOLDER, M-157	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
17. HYDROGEN REGULATOR, ML-153	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
18. MET. OBS. SET, SCW-12	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19. MICROPHONE, T-30	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
20. PANEL, MD-35	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
21. T. L. CONTROLS (MOR. 8074)	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
23. RADIO SET, SCW-12	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
24. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
26. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
27. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
28. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
29. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
30. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
31. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
32. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
33. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
34. REEL UNIT, MD-31	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
35. RECTIFIER, POWER UNIT, SCW-12	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
36. BALLAST, CAPACITOR, SCW-12	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
37. SWITCHBOARD, SCW-12	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
38. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
39. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
40. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
41. T. L. CONTROLS	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
42. TELEPHONE, SCW-12	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
43. TELEPHONE, SCW-12	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
44. TRUNKLINE, STIP TB-184	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
45. TEST SET, J-45	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
46. TEST SET, J-45	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
47. TIME CONTROL, SCW-12	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
48. TIME INTERNAL, SCW-12	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
49. TOOL SET, TE-54	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
50. TRAILER, K-36	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51. TYPEWRITER, MD-66	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
52. VOLTMETER, J-50	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
53. WIND EQUIPMENT SET	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
54. WIRE, FINE, MD-123	8	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

* FOR C-3 WHICH HAS BTRY GRAY AS A SEPARATE BATTERY.

**TABLE OF HARBOR DEFENSE ALLOWANCES
OF ENGINEER EQUIPMENT**

TYPE OF INSTALLATION	PER APP'D PROJECT								TOTAL
	37MM AMTB GUN	40MM AA GUN	3" AA BTRY	90MM AMTB BTRY	SC S/L BTRY	AA S/L	SEARCHL'T BTRY		
NO. OF INSTALLATIONS	8	24	2	3	3	34	10		
1 CAMOUFLAGE NET SET NO. 3	8	24							32
2 NO. 4			6	12					18
3 GAGE, TIDE								1	1
4 KIT, SPREAD BEAM ATTACH., S/L, 60" P.T.					3	34			37
5 SEARCHLIGHT, SET NO. 1, 60" P.T. S.C.					3	34			37
6 SEARCHLIGHT, 60" PORTABLE, A.A.							10		10
7 TRAILER, TILTING TYPE, S/L, 60" 4W, M-1					3				3

PREPARED BY
H. D. OF NARRAGANSETT BAY

1 FEBRUARY 1945 EX. NO. 3-G-2

Authority: AWD 760162
By: SW NARA Date: 5-23

PRODUCED BY THE NATIONAL ARCHIVES

TABLE OF HARBOR DEFENSE ALLOWANCES OF ORDNANCE ITEMS

TYPE OF INSTALLATION	BASE END STATIONS										OTHER STATIONS										TOTAL
	370 METER	300 METER	240 METER	180 METER	120 METER	90 METER	60 METER	30 METER	15 METER	7.5 METER	370 METER	300 METER	240 METER	180 METER	120 METER	90 METER	60 METER	30 METER	15 METER	7.5 METER	
1. NO. OF INSTALLATIONS	8	24	2	2	2	2	2	2	2	2	8	24	2	2	2	2	2	2	2	2	20
2. ARM SCALE, MBOC: 1/80,000																					20
3. BOARD ADJUSTMENT FIRE M-1																					20
4. CORRECTION RANGE M-1A1																					7
5. DEFLECTION M-1																					9
6. PLOTTING M-1																					9
7. PLOTTING M-2																					9
8. PLOTTING M-3																					9
9. PLOTTING M-4																					9
10. PLOTTING M-5																					9
11. BOARD PLOTTING M-8																					9
12. PLOT, SUBMARINE MINE																					9
13. SPOTTING, M7																					9
14. SPOTTING, M3 OR M2																					9
15. SPOTTING, M3 OR M2																					9
16. QUINOMETER, M912 A-1																					9
17. COMPUTER DATA, GEN: M-1																					9
18. CORRECTOR, PERCENTAGE, M-1																					9
19. DIRECTOR: M-5																					9
20. DIRECTOR: M-7																					9
21. DIRECTOR: M-9																					9
22. DIRECTOR: M-10																					9
23. FINDER, DEPRESSION POS: M-1																					9
24. FINDER, DEPRESSION POS: M-2																					9
25. HEIGHT: M-1 OR M-2																					9
26. CONDENSED RANGE																					9
27. GUN, AUTOMATIC, 40MM W/M/T																					9
28. GUN, AUTOMATIC, 37MM W/M/T																					9
29. MACHINE, CAL. 50 W/M/T																					9
30. MACHINE, CAL. 50 W/M/T																					9
31. INDICATOR POWER TEMP: M-12																					9
32. INDICATOR POWER TEMP: M-13																					9
33. INSTRUMENT, AZIMUTH: M10A1																					9
34. INSTRUMENT, AZIMUTH: M10A1																					9
35. OBSERVATION AASC M-1																					9
36. PREDICTOR, MINE, M1916																					9
37. RULE, AIMING, M1918 W/SIGHT																					9
38. SCALE, PREDICTION, M-1																					9
39. SET, CONTROL EQUIPMENT																					9
40. INDICATOR, RANGE MK-1																					9
41. TESTER, STEREO, M-1A1																					9
42. MOTOR GENERATOR M-2																					9
43. SYSTEM, DATA, TRANS: M-5																					9
44. SYSTEM, DATA, TRANS: M-5																					9
45. SYSTEM, DATA, TRANS: M-5																					9
46. THERMOMETER, POWD, TEMP M-1																					9
47. THERMOMETER, POWD, TEMP M-1																					9
48. TRAILER, M18																					9
49. UNIT GENERATING: MIT																					9
50. UNIT GENERATING: MIT																					9
51. TOOL SET (GEN. MECH)																					9

~~SECRET~~

TABLE OF HARBOR DEFENSE ALLOWANCES OF QUARTERMASTER EQUIPMENT

TYPE OF INSTALLATION															TOTAL
	90 MM-AMTB BTRY	3" AA BTRY	6" B.C. M-1900	6" B.C. M-1	8" B.C. M-1	16" B.C.	SIGNAL STA.	BN. C.P. AA	BN. C.P. S.G.	H.D. COMM. POST	GROUP COMM. POST	COMB. FT. - BN. C.P.	COMB. FT. - BN. C.P.	COMB. FT. - BN. C.P.	
NO OF INSTALLATIONS	2	2	3	2	3	1	3	1	1	5	1	1	3	9	4
1 BOOK: EMPLACEMENT	2	2	3	2	3	1	3								16
2 FORT RECORD														5	4
JANE'S ALL THE WORLD'S:															
3 AIRCRAFT									1	1		1			3
4 FIGHTING SHIPS									1		5	1	3		10
5 LLYOD'S REG. OF SHIPS												1			1
6 MERCH. VESSELS OF U.S.									1						1
7 MINE GROUP RECORD											1				1

PREPARED BY
H.D. OF NARRAGANSETT BAY

1 FEBRUARY 1945 EX. NO. 3-6-4

~~SECRET~~

~~SECRET~~
ANNEX H

INDEX

Par. 1 Real Estate Requirements.

EXHIBITS

None

SECRET

1. REAL ESTATE REQUIREMENTS:

No further acquisition of real estate is necessary to complete the installation of armament provided for in the basic project.