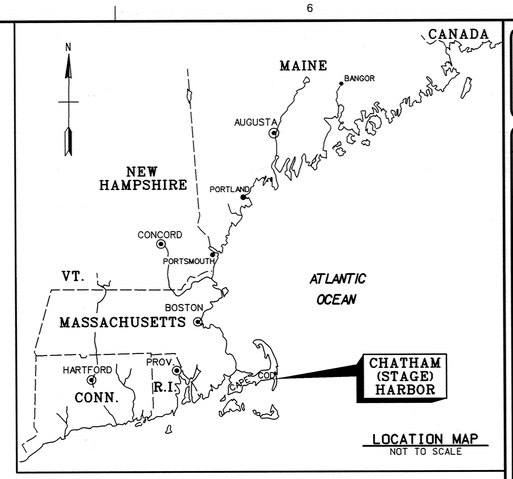
INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
FI G-1	8/14/08	N 2702537.90 E 1068346.95	41° - 39′ - 13.9″N 69° - 59′ - 30.1″W
RN-2	8/14/08	N 2702293.03 E 1068406.55	41° - 39′ - 11.5″N 69° - 59′ - 29.4″W
RN-4	8/14/08	N 2702541.27 E 1068957.98	41° - 39′ - 13.8″N 69° - 59′ - 22.1″W
GC-5	8/14/08	N 2702924.45 E 1069437.44	41° - 39′ - 17.5″N 69° - 59′ - 15.7″W
RN-6	8/14/08	N 2702762.71 E 1069548.46	41° - 39′ - 15.9″N 69° - 59′ - 14.3″W
GC-7	8/14/08	N 2703561.01 E 1070417.31	41° - 39′ - 23.6″N 69° - 59′ - 02.6″W
FI R-8	8/14/08	N 2703457.09 E 1070687.77	41° - 39′ - 22.6″N 69° - 58′ - 59.1″W
RN-10	8/14/08	N 2705130.35 E 1072287.13	41° - 39′ - 38.8″N 69° - 58′ - 37.6″W

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-1	8/14/08	N 2705320.03 E 1072209.66	41° - 39′ - 40.7″N 69° - 58′ - 38.6″W
RN-2	8/14/08	N 2705403.37 E 1072329.73	41° - 39′ - 41.5″N 69° - 58′ - 37.0″W
GC-11	8/14/08	N 2705560.75 E 1072580.56	41° - 39′ - 43.0″N 69° - 58′ - 33.7″W
RN-12	8/14/08	N 2706455.83 E 1073728.96	41° - 39′ - 51.7″N 69° - 58′ - 18.3″W
GC-13	8/14/08	N 2706619.73 E 1073733.92	41° - 39′ - 53.3″N 69° - 58′ - 18.2″W
RN-14	8/14/08	N 2706935.17 E 1074460.28	41° - 39′ - 56.3″N 69° - 58′ - 08.6″W
GC-15	8/14/08	N 2707011.76 E 1074469.23	41° - 39′ - 57.0″N 69° - 58′ - 08.4″W
RN-16	8/14/08	N 2707007.68 E 1074835.39	41° - 39′ - 56.9″N 69° - 58′ - 03.6″W



LOCATION MAP
NOT TO SCALE

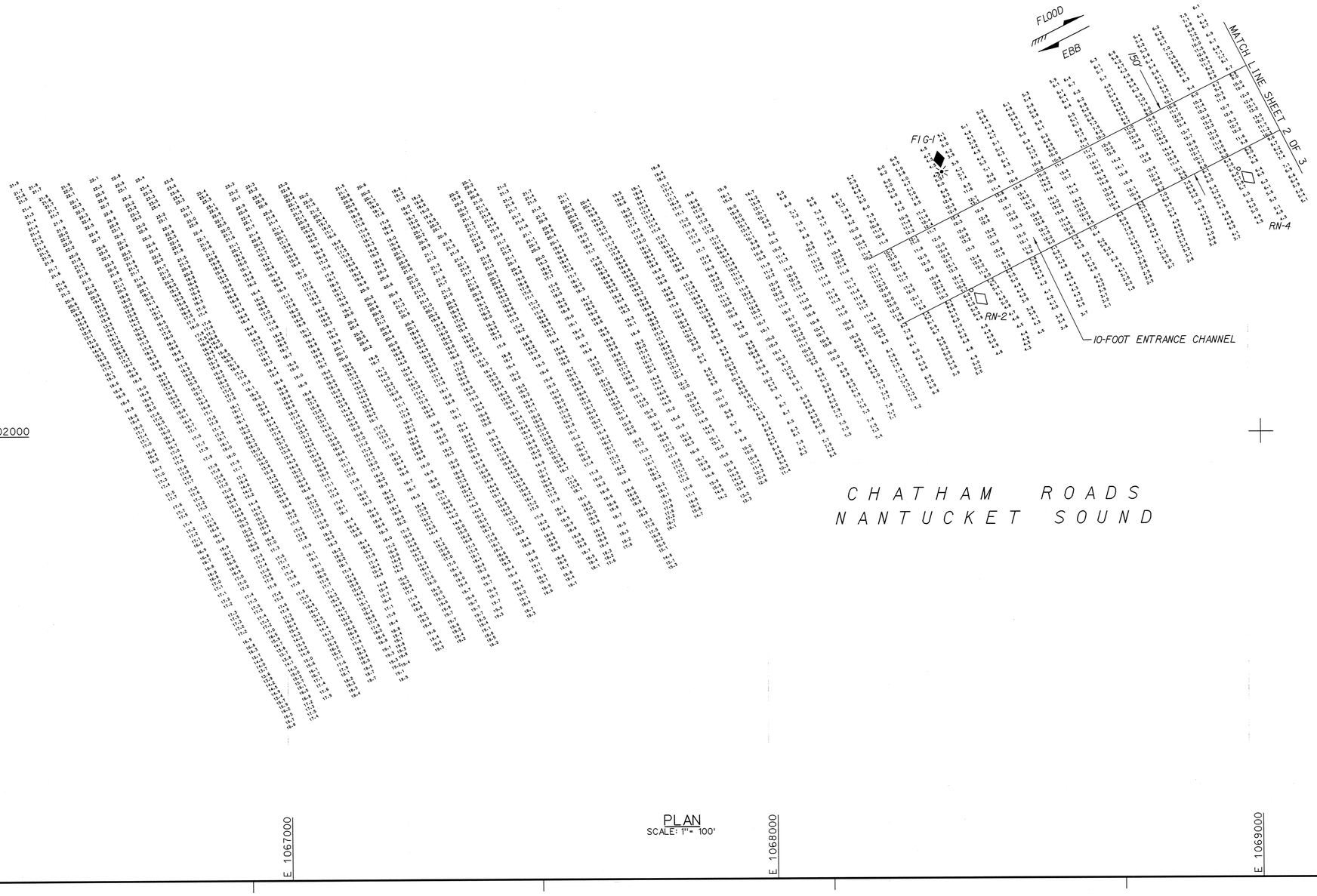
N 2703000

N 2702000

E 1067000

E 1068000

E 1069000



PLAN
SCALE: 1" = 100'

GENERAL NOTES:

1. Soundings are in feet and tenths and refer to the plane of Mean Lower Low Water (MLLW) 1983-2001 Tidal Epoch.
2. Topography shown is from previous surveys and/or NOAA Chart No. 13229. All topography, including shoreline, bridges, piers, etc., is located approximate unless otherwise noted and should be used as a general reference only.
3. Bench Mark Data: BM 4 (1952) is a standard USC&GS disk stamped "BM No. 4 1952", set in the east end of the seawall located at the northwest end of the Hoyt's Pier, 124.7 feet (38.01 m) east of the extended centerline of Port Fortune Lane, 59.4 feet (18.11 m) south-southwest of the southwest corner of the storage building located north of the pier, 11.5 feet (3.51 m) south-southwest of the northwest corner of the Holt Trap Co. Dock, 1.0 foot (0.30 m) west of the east end of the seawall and level with the ground. Elevation is 7.53 feet above MLLW.
4. Coordinates shown are based on the Lambert Grid System for the Commonwealth of Massachusetts (Mainland 2001 Zone) and NAD 1983.
5. Survey was performed using an Odom MK2 echotrac echosounder. Horizontal positioning was obtained utilizing a Leica 1200 GPS. An RTK base station was set up Sta. MTS Orleans.
6. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during August 2008.
7. The sounding information depicted on these maps should NOT be used to determine volumes. Volumes are determined from more sounding information than shown. Additional sounding information is available upon request.
8. The information depicted on these maps represents the results of surveys made on the dates indicated, and can only be considered as indicating the general conditions existing at that time.
9. Field Book: R&H 4437
Depthsounder Roll: 08-955/01
Surveyed by: Robert MacGovern and Crew

SAFETY PAYS

GRAPHIC SCALE:
100 0 100 200
1" - 100'

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR

REVIEWED BY: Chief, Survey Section	DATE: 10/30/08
SURVEYED BY:	DWN BY: SWK
SUBMITTED BY:	CHKD BY: MTM
PLOT SCALE: 1" = 100'	DESIGN FILE:
PLOT DATE: 10/03/2008	DRAWING CODE: CM-131
SIZE: ANSI F	FILE NAME: CHA0810V101

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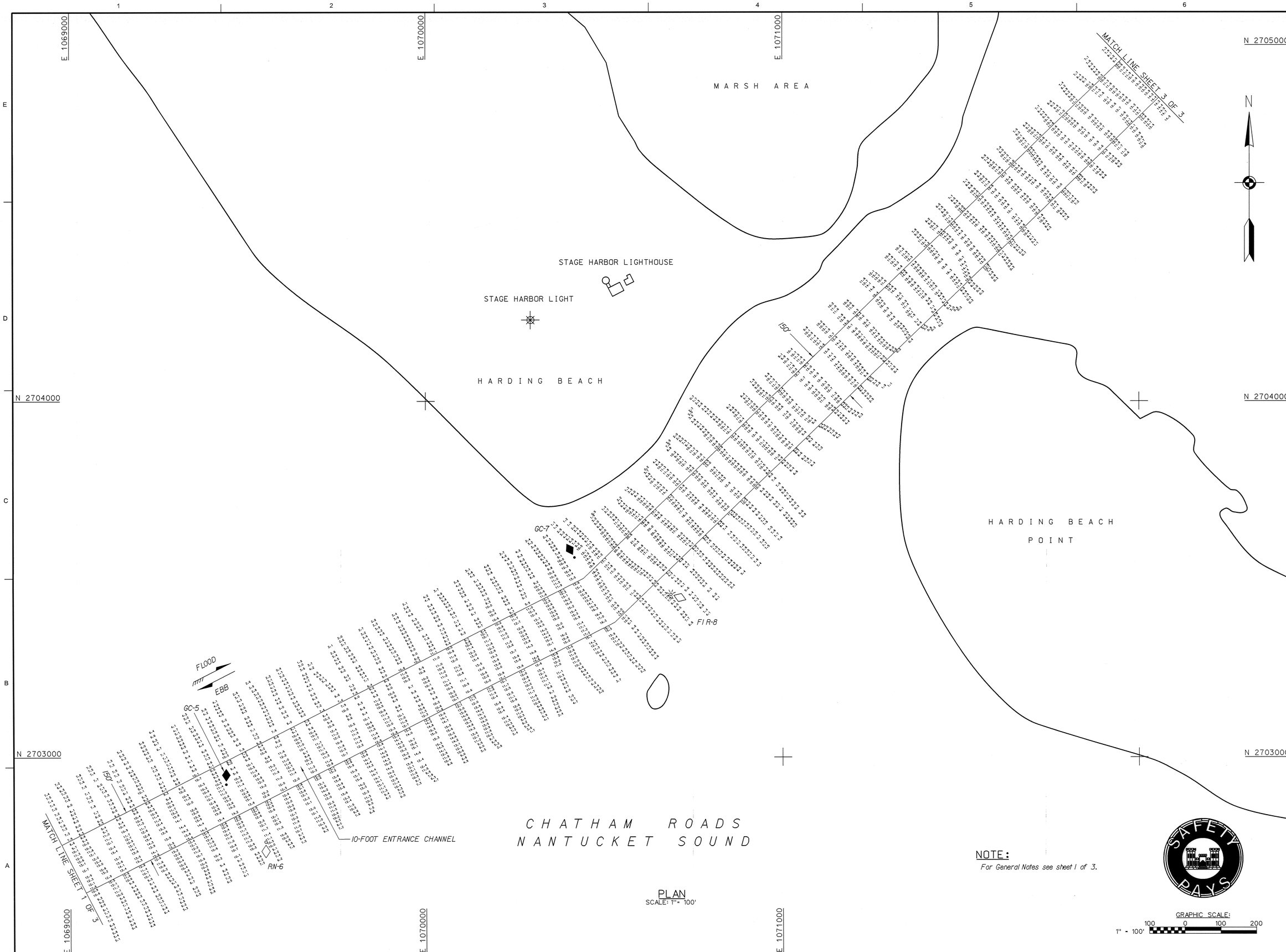
CHATHAM (STAGE) HARBOR
CHATHAM, MASSACHUSETTS
AFTER DREDGE SURVEY

10-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 3

SCANNED RECORD
NOV-2008



PLAN
SCALE: 1" = 100'

NOTE:
For General Notes see sheet 1 of 3.

GRAPHIC SCALE:
1" = 100'
100 0 100 200

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MARK	DESCRIPTION	DATE	APPR

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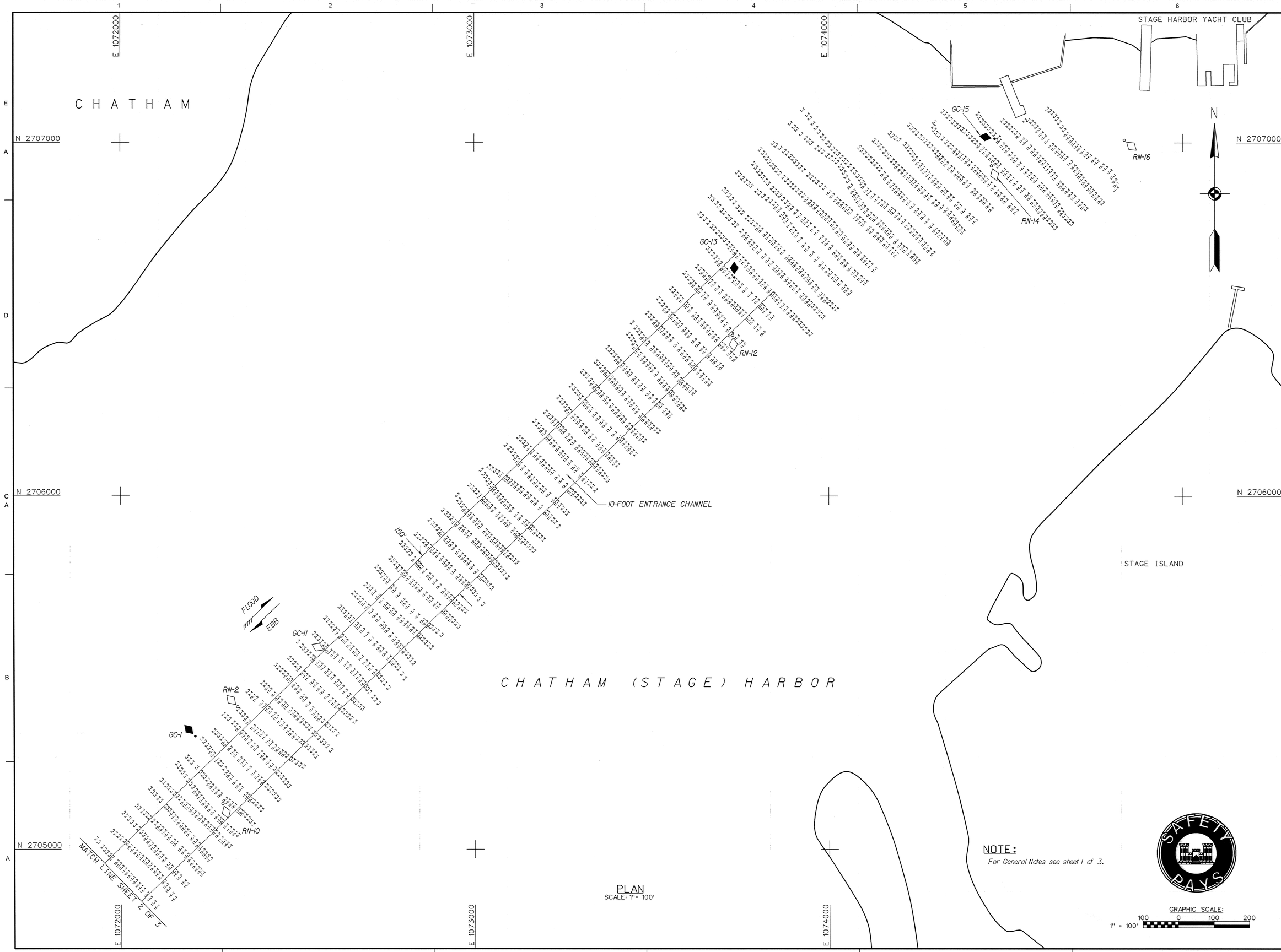
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 11/03/08
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: CHANSFS.DGN
DRAWING CODE: CM-131
PLOT SCALE: 1" = 100'
PLOT DATE: 11/03/2008
SIZE: ANSI F
FILE NAME: CHA131V102.S02

CHATHAM (STAGE) HARBOR
CHATHAM, MASSACHUSETTS
AFTER DREDGE SURVEY

10-FOOT CHANNEL

SHEET IDENTIFICATION
V-102
SHEET 2 OF 3

SCANNED RECORD
NOV-2008



PLAN
SCALE: 1"= 100'

NOTE:
For General Notes see sheet 1 of 3.

GRAPHIC SCALE:
1" = 100'
100 0 100 200

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New England District

MARK	DESCRIPTION	DATE	APPR

MARK	DESCRIPTION	DATE	APPR

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REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 11/03/08
DWN BY: SWK-SAJE
CKD BY: MTM
DESIGN FILE: CHAN5P3.DGN
DRAWING CODE: CM-131
PLOT SCALE: 1" = 100'
PLOT DATE: 11/03/2008
SIZE: ANSI F
FILE NAME: CHA131V103.503

CHATHAM (STAGE) HARBOR
CHATHAM, MASSACHUSETTS
AFTER DREDGE SURVEY

10-FOOT CHANNEL

SHEET IDENTIFICATION
V-103
SHEET 3 OF 3

SCANNED RECORD
NOV-2008