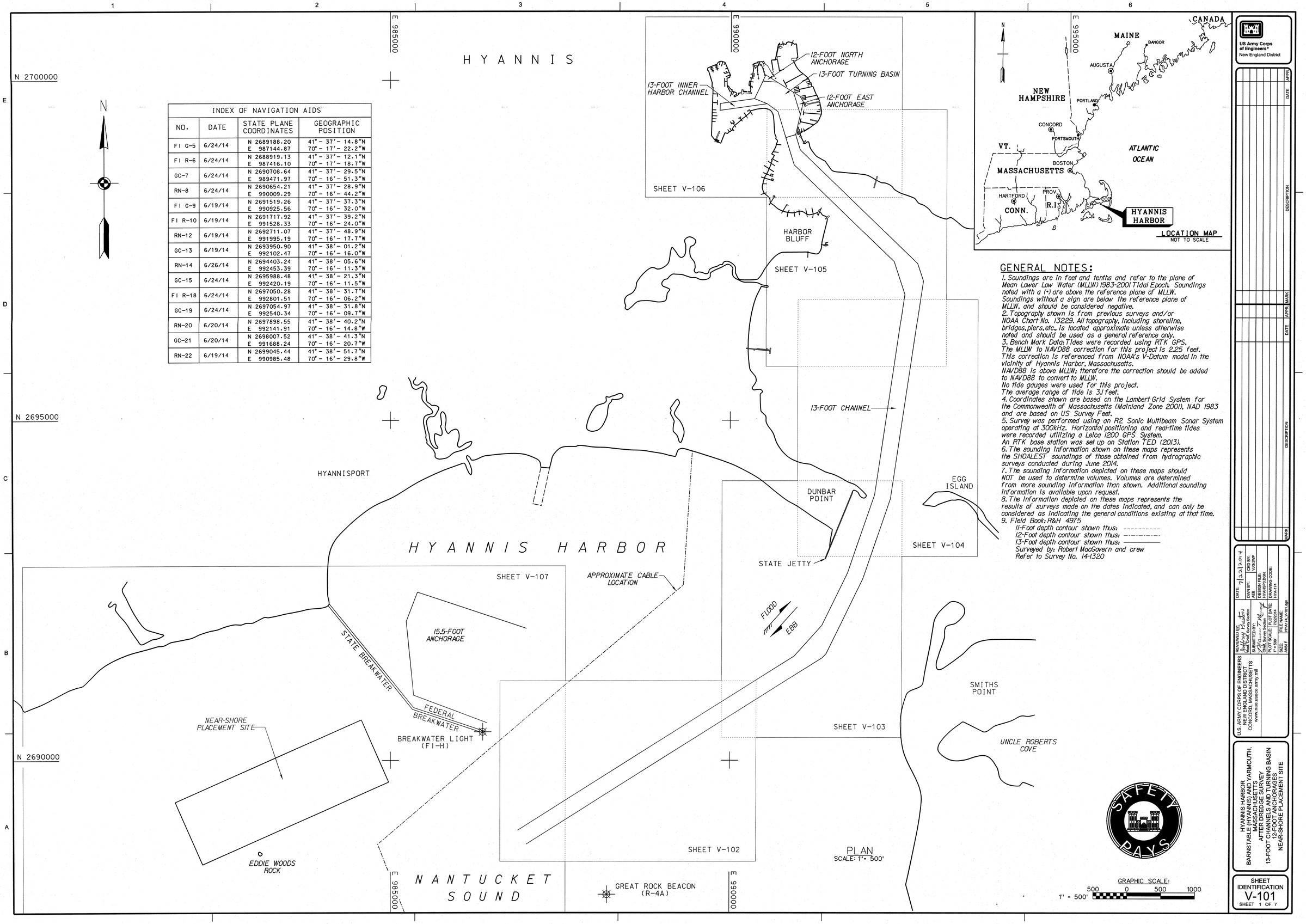


INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
FI G-5	6/24/14	N 2689188.20 E 987144.87	41° - 37′ - 14.8″N 70° - 17′ - 22.2″W
FI R-6	6/24/14	N 2688919.13 E 987416.10	41° - 37′ - 12.1″N 70° - 17′ - 18.7″W
GC-7	6/24/14	N 2690708.64 E 989471.97	41° - 37′ - 29.5″N 70° - 16′ - 51.3″W
RN-8	6/24/14	N 2690654.21 E 990009.29	41° - 37′ - 28.9″N 70° - 16′ - 44.2″W
FI G-9	6/19/14	N 2691519.26 E 990925.56	41° - 37′ - 37.3″N 70° - 16′ - 32.0″W
FI R-10	6/19/14	N 2691717.92 E 991528.33	41° - 37′ - 39.2″N 70° - 16′ - 24.0″W
RN-12	6/19/14	N 2692711.07 E 991995.19	41° - 37′ - 48.9″N 70° - 16′ - 17.7″W
GC-13	6/19/14	N 2693950.90 E 992102.47	41° - 38′ - 01.2″N 70° - 16′ - 16.0″W
RN-14	6/26/14	N 2694403.24 E 992453.39	41° - 38′ - 05.6″N 70° - 16′ - 11.3″W
GC-15	6/24/14	N 2695988.48 E 992420.19	41° - 38′ - 21.3″N 70° - 16′ - 11.5″W
FI R-18	6/24/14	N 2697050.28 E 992801.51	41° - 38′ - 31.7″N 70° - 16′ - 06.2″W
GC-19	6/24/14	N 2697054.97 E 992540.34	41° - 38′ - 31.8″N 70° - 16′ - 09.7″W
RN-20	6/20/14	N 2697898.55 E 992141.91	41° - 38′ - 40.2″N 70° - 16′ - 14.8″W
GC-21	6/20/14	N 2698007.52 E 991688.24	41° - 38′ - 41.3″N 70° - 16′ - 20.7″W
RN-22	6/19/14	N 2699045.44 E 990985.48	41° - 38′ - 51.7″N 70° - 16′ - 29.8″W

GENERAL NOTES:

1. Soundings are in feet and tenths and refer to the plane of Mean Lower Low Water (MLLW) 1983-2001 Tidal Epoch. Soundings noted with a (+) are above the reference plane of MLLW. Soundings without a sign are below the reference plane of MLLW, and should be considered negative.
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: Tides were recorded using RTK GPS. The MLLW to NAVD88 correction for this project is 2.25 feet. This correction is referenced from NOAA's V-Datum model in the vicinity of Hyannis Harbor, Massachusetts. NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used for this project. The average range of tide is 3.1 feet.
4. Coordinates shown are based on the Lambert Grid System for the Commonwealth of Massachusetts (Mainland Zone 2001), NAD 1983 and are based on US Survey Feet.
5. Survey was performed using an R2 Sonic Multibeam Sonar System operating at 300kHz. Horizontal positioning and real-time tides were recorded utilizing a Leica 1200 GPS System. An RTK base station was set up on Station TED (2013).
6. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during June 2014.
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 4975
   - 11-Foot depth contour shown thus: ----------
   - 12-Foot depth contour shown thus: ----------
   - 13-Foot depth contour shown thus: ----------
   - Surveyed by: Robert MacGovern and crew
   - Refer to Survey No. 14-1320

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR

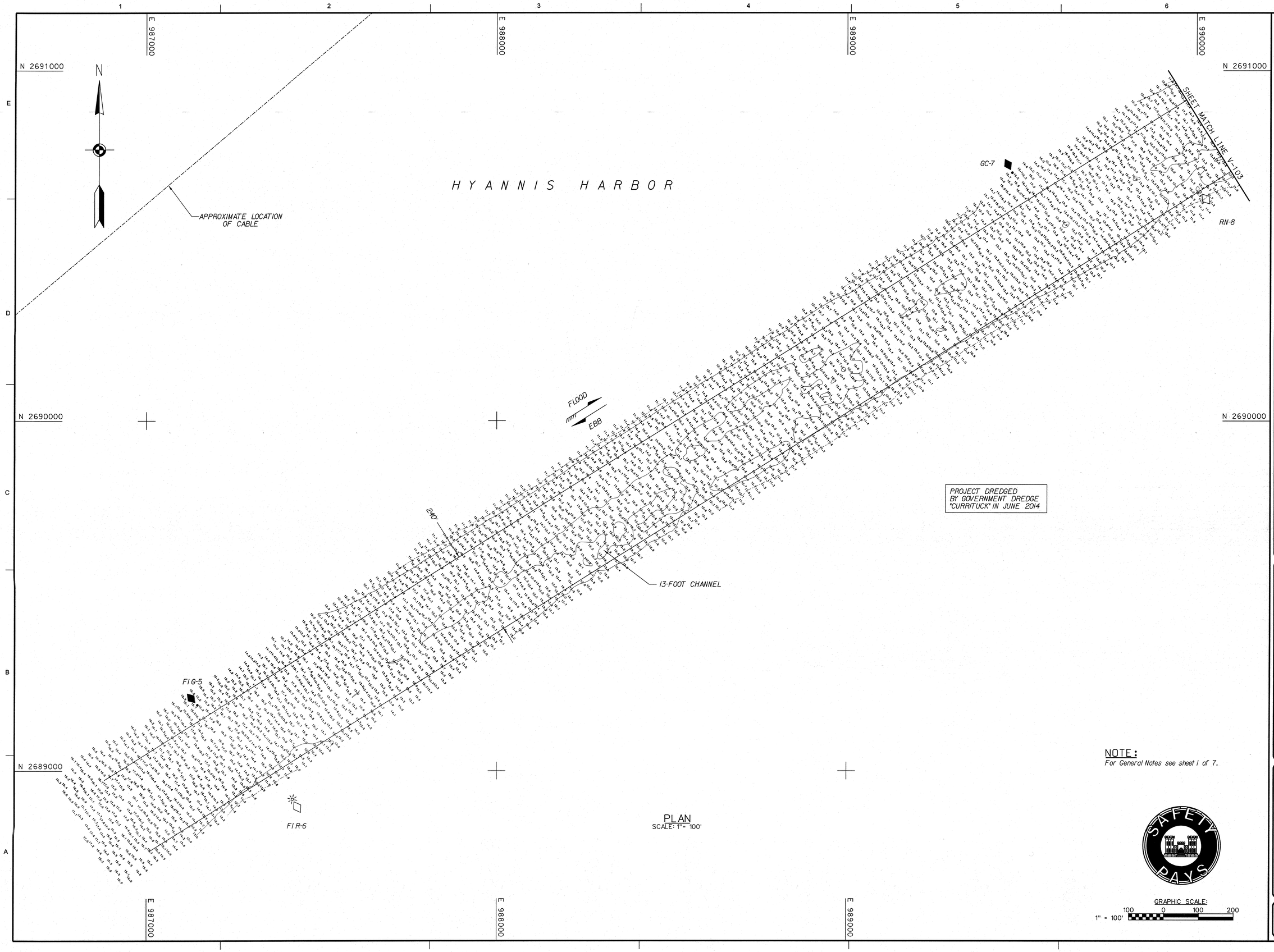
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Anthony Pratt, Asst. Chief, Survey Section
SUBMITTED BY: Robert MacGovern, Chief, Survey Section
DATE: 7/23/2014
DWN BY: MB
CKD BY: WSHIPP
DESIGN FILE: HYANSHS.DGN
PLOT SCALE: 1:1
PLOT DATE: 7/23/2014
DRAWING CODE: HYA14
FILE NAME: HYA14 V-101.dgn
SIZE: ANSI F

HYANNIS HARBOR
BARNSTABLE (HYANNIS) AND YARMOUTH, MASSACHUSETTS
AFTER DREDGE SURVEY
CHANNELS AND TURNING BASIN
13-FOOT CHANNEL AND TURNING BASIN
12-FOOT ANCHORAGES
NEAR-SHORE PLACEMENT SITE

SHEET IDENTIFICATION
V-101
SHEET 1 OF 7

SAFETY PAYS



PLAN
SCALE: 1" = 100'

NOTE:
For General Notes see sheet 1 of 7.

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

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.

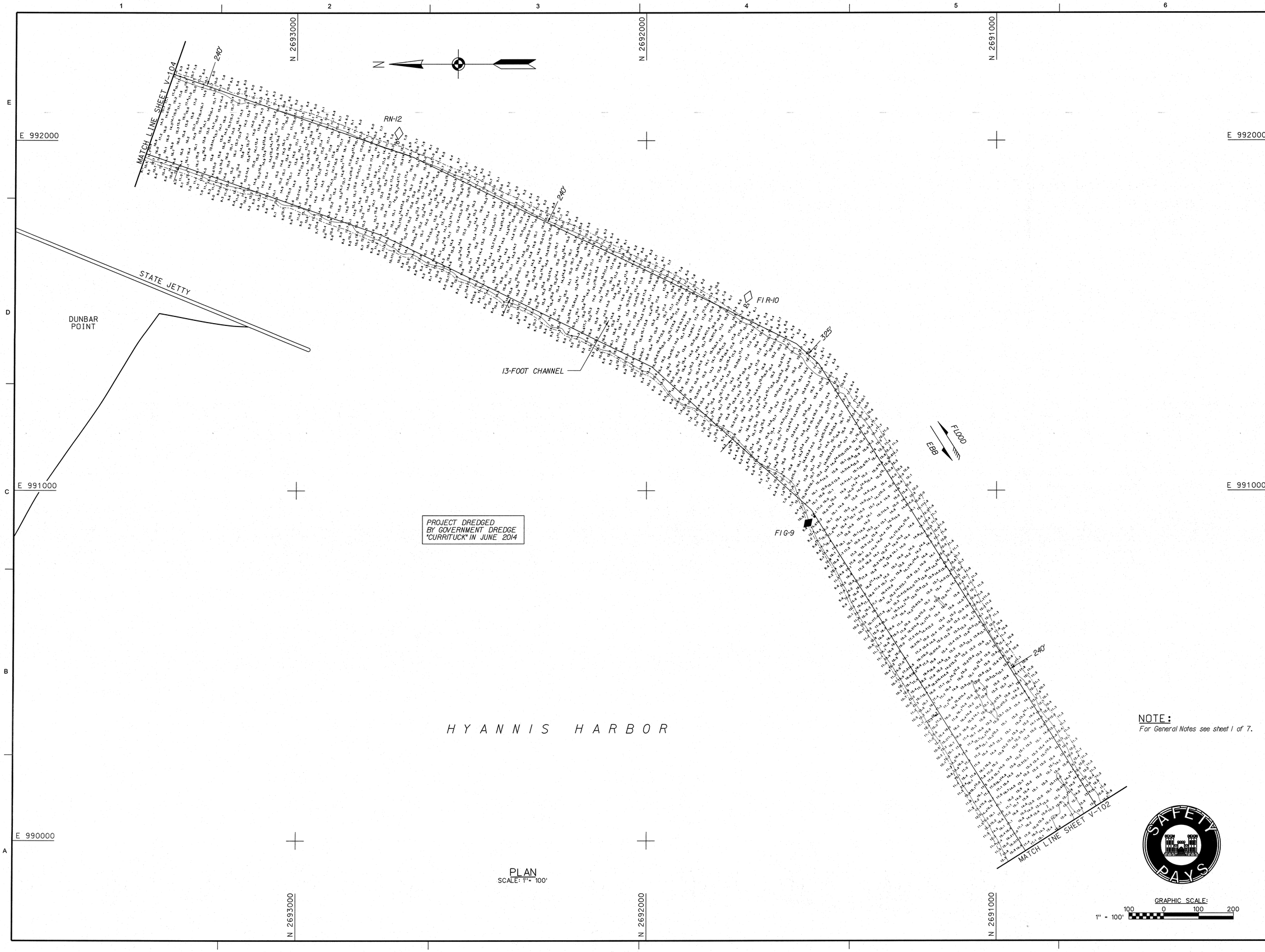
MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Jeffrey Paulson
Asst. Chief, Survey Section
SUBMITTED BY: Tyler Tremont
Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 7/22/2014
SIZE: ANSI F
FILE NAME: HYA174_V-102.dgn
DATE: 7/22/2014
DWN BY: AEB
CKD BY: VGU/WP
DESIGN FILE: HYAHSP3.DGN
DRAWING CODE: HYA-174

HYANNIS HARBOR
BARNSTABLE (HYANNIS) AND YARMOUTH,
MASSACHUSETTS
AFTER DREDGE SURVEY
13-FOOT CHANNELS AND TURNING BASIN
12-FOOT ANCHORAGES
NEAR-SHORE PLACEMENT SITE

SHEET IDENTIFICATION
V-102
SHEET 2 OF 7



PROJECT DREDGED BY GOVERNMENT DREDGE "CURRITUCK" IN JUNE 2014

PLAN
SCALE: 1" = 100'

NOTE:
For General Notes see sheet 1 of 7.

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

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR

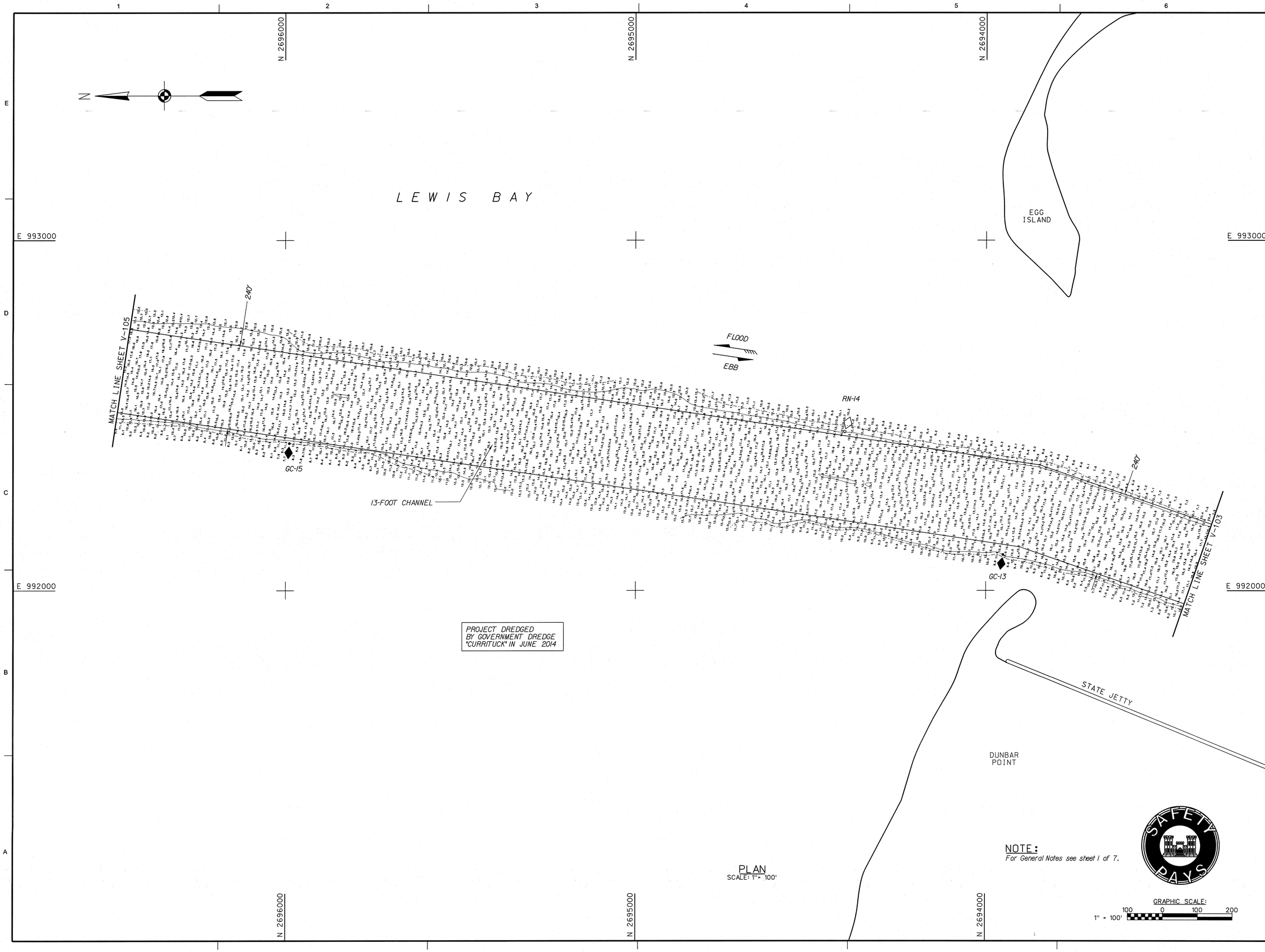
MARK	DESCRIPTION	DATE	APPR

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Jeffrey Paulton
Asst. Chief, Survey Section
SUBMITTED BY: Thomas T. Kenny
Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 7/22/2014
SIZE: ANSI F
FILE NAME: HYA174_V-103.dgn
DATE: 7/22/2014
DWN BY: AEB
CKD BY: VJG/JWP
DESIGN FILE: HYANSP3.DGN
DRAWING CODE: HYA-174

HYANNIS HARBOR
BARNSTABLE (HYANNIS) AND YARMOUTH, MASSACHUSETTS
AFTER DREDGE SURVEY
13-FOOT CHANNELS AND TURNING BASIN
12-FOOT ANCHORAGES
NEAR-SHORE PLACEMENT SITE

SHEET IDENTIFICATION
V-103
SHEET 3 OF 7



PLAN
SCALE: 1" = 100'

NOTE:
For General Notes see sheet 1 of 7.

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR

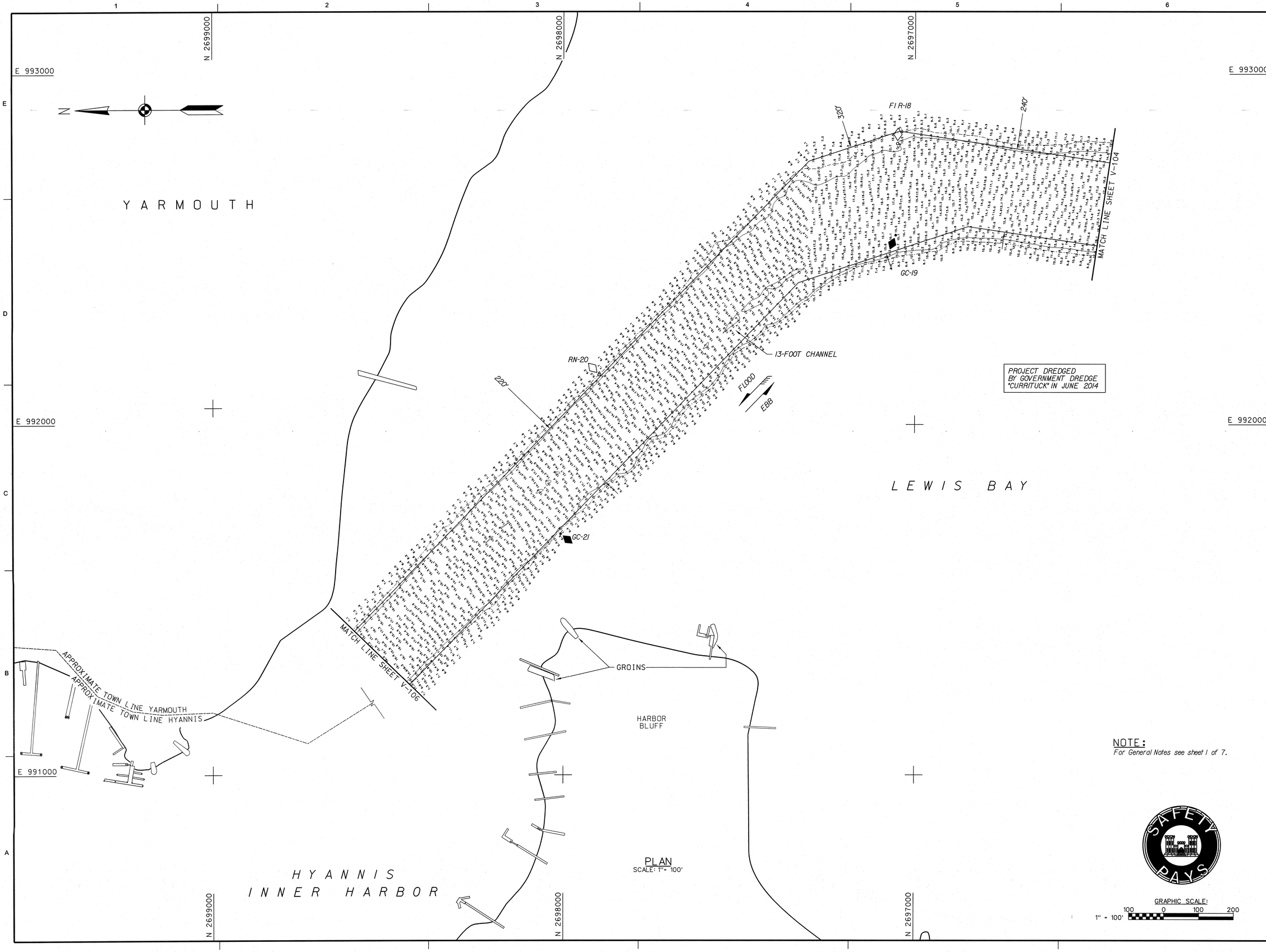
MARK	DESCRIPTION	DATE	APPR

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Anthony Paxton
Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 7/22/2014
SIZE: ANSI F
FILE NAME: HYA174_V-104.dgn
DATE: 7/22/2014
DWN BY: AEB
CKD BY: VJG/JWP
DESIGN FILE: HYANSP3.DGN
DRAWING CODE: HYA-174

HYANNIS HARBOR
BARNSTABLE (HYANNIS) AND YARMOUTH, MASSACHUSETTS
AFTER DREDGE SURVEY
13-FOOT CHANNELS AND TURNING BASIN
12-FOOT ANCHORAGES
NEAR-SHORE PLACEMENT SITE

SHEET IDENTIFICATION
V-104
SHEET 4 OF 7



PLAN
SCALE: 1" = 100'

NOTE:
For General Notes see sheet 1 of 7.

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

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.

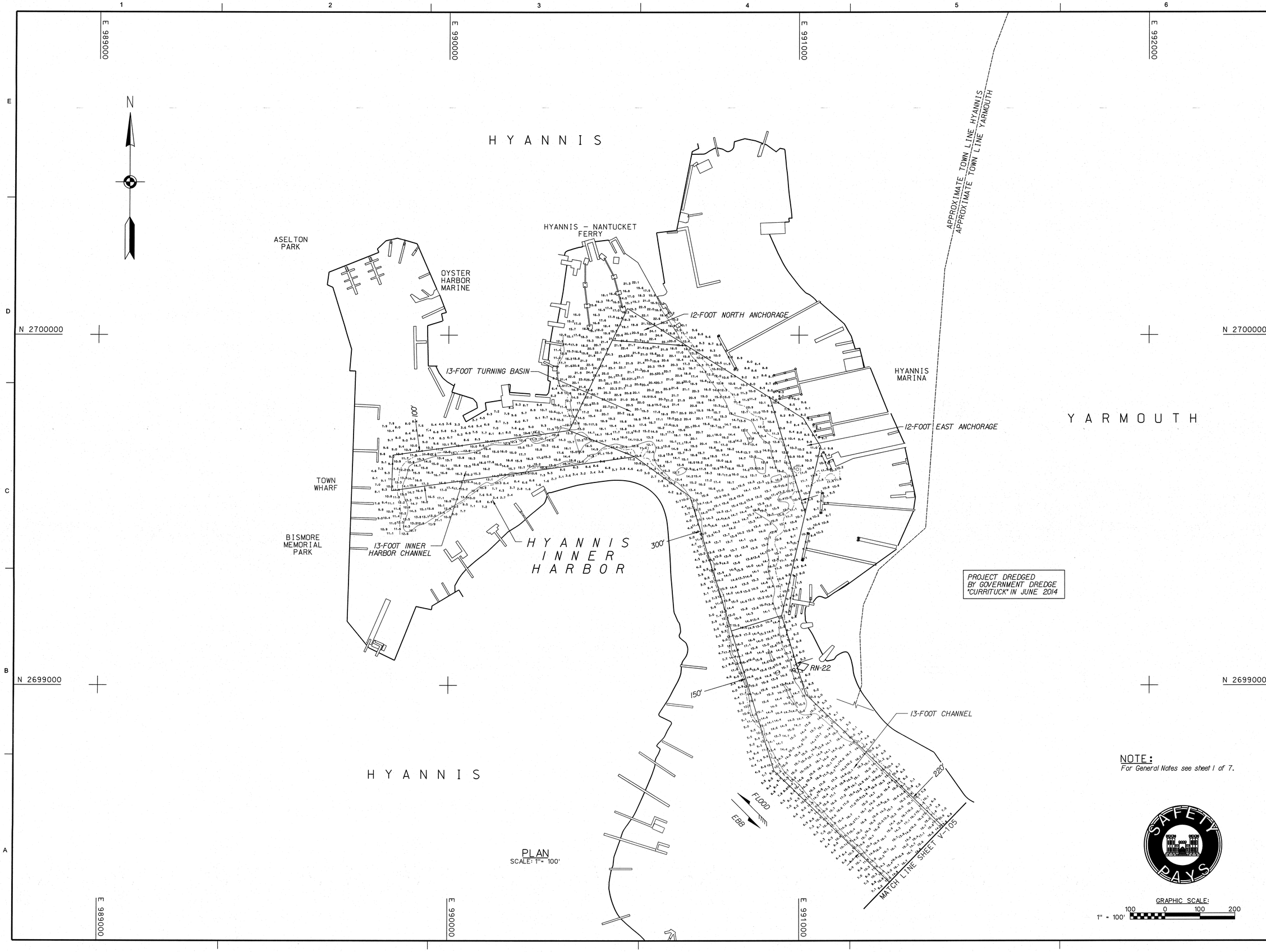
MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: [signature] Chief, Chief, Survey Section
SUBMITTED BY: [signature] Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 7/22/2014
SIZE: ANSI F
FILE NAME: HYA174_V-105.dgn
DATE: 7/22/2014
DWN BY: AEB
CKD BY: VGI/JWP
DESIGN FILE: HYAHSP3.DGN
DRAWING CODE: HYA-174

HYANNIS HARBOR
BARNSTABLE (HYANNIS) AND YARMOUTH, MASSACHUSETTS
AFTER DREDGE SURVEY
13-FOOT CHANNELS AND TURNING BASIN
12-FOOT ANCHORAGES
NEAR-SHORE PLACEMENT SITE

SHEET IDENTIFICATION
V-105
SHEET 5 OF 7



PLAN
SCALE: 1"= 100'

NOTE:
For General Notes see sheet 1 of 7.

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

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR

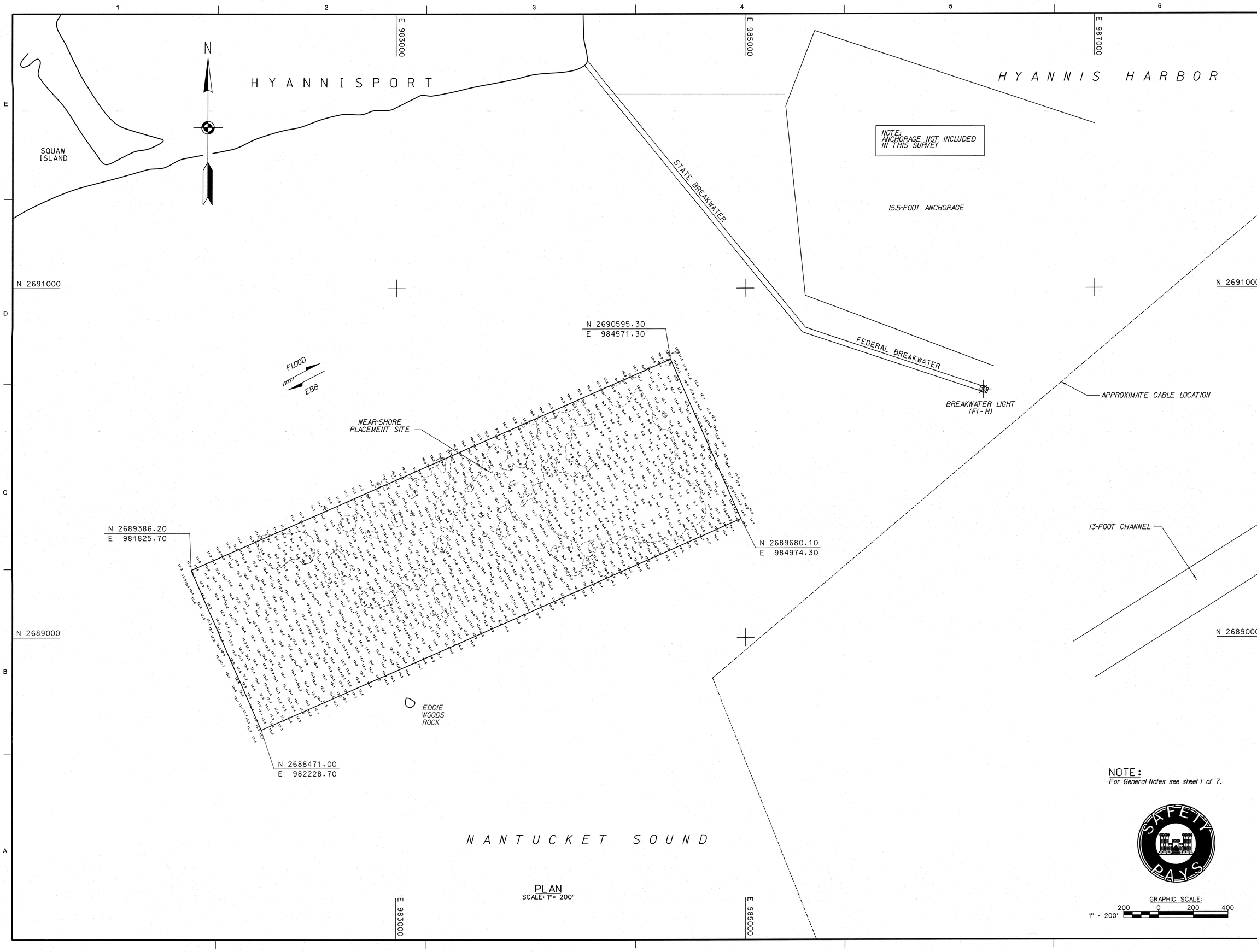
MARK	DESCRIPTION	DATE	APPR

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Matthew Pruden
Asst. Chief, Survey Section
SUBMITTED BY: Mark Mann
Chief, Survey Section
PLOT SCALE: 1"= 100'
PLOT DATE: 7/22/2014
SIZE: ANSI F
FILE NAME: HYA174_V-106.dgn
DATE: 7/22/2014
DWN BY: AEB
CKD BY: VJG/JWP
DESIGN FILE: HYANSP3.DGN
DRAWING CODE: HYA-174

HYANNIS HARBOR
BARNSTABLE (HYANNIS) AND YARMOUTH,
MASSACHUSETTS
AFTER DREDGE SURVEY
13-FOOT CHANNELS AND TURNING BASIN
12-FOOT ANCHORAGES
NEAR-SHORE PLACEMENT SITE

SHEET IDENTIFICATION
V-106
SHEET 6 OF 7



PLAN
SCALE: 1"= 200'

NOTE:
For General Notes see sheet 1 of 7.

SAFETY PAYS

GRAPHIC SCALE:
200 0 200 400
1" = 200'

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Jeffrey Peterson
Asst. Chief, Survey Section
SUBMITTED BY: Mark Tremont
Chief, Survey Section
PLOT SCALE: 1" = 200'
PLOT DATE: 7/22/2014
SIZE: ANSI F
FILE NAME: HYA174_V-107.dgn
DATE: 7/22/2014
DWN BY: AEB
CKD BY: VJG/JWP
DESIGN FILE: HYAHSP3.DGN
DRAWING CODE: HYA-174

HYANNIS HARBOR
BARNSTABLE (HYANNIS) AND YARMOUTH, MASSACHUSETTS
AFTER DREDGE SURVEY
13-FOOT CHANNELS AND TURNING BASIN
12-FOOT ANCHORAGES
NEAR-SHORE PLACEMENT SITE

SHEET IDENTIFICATION
V-107
SHEET 7 OF 7