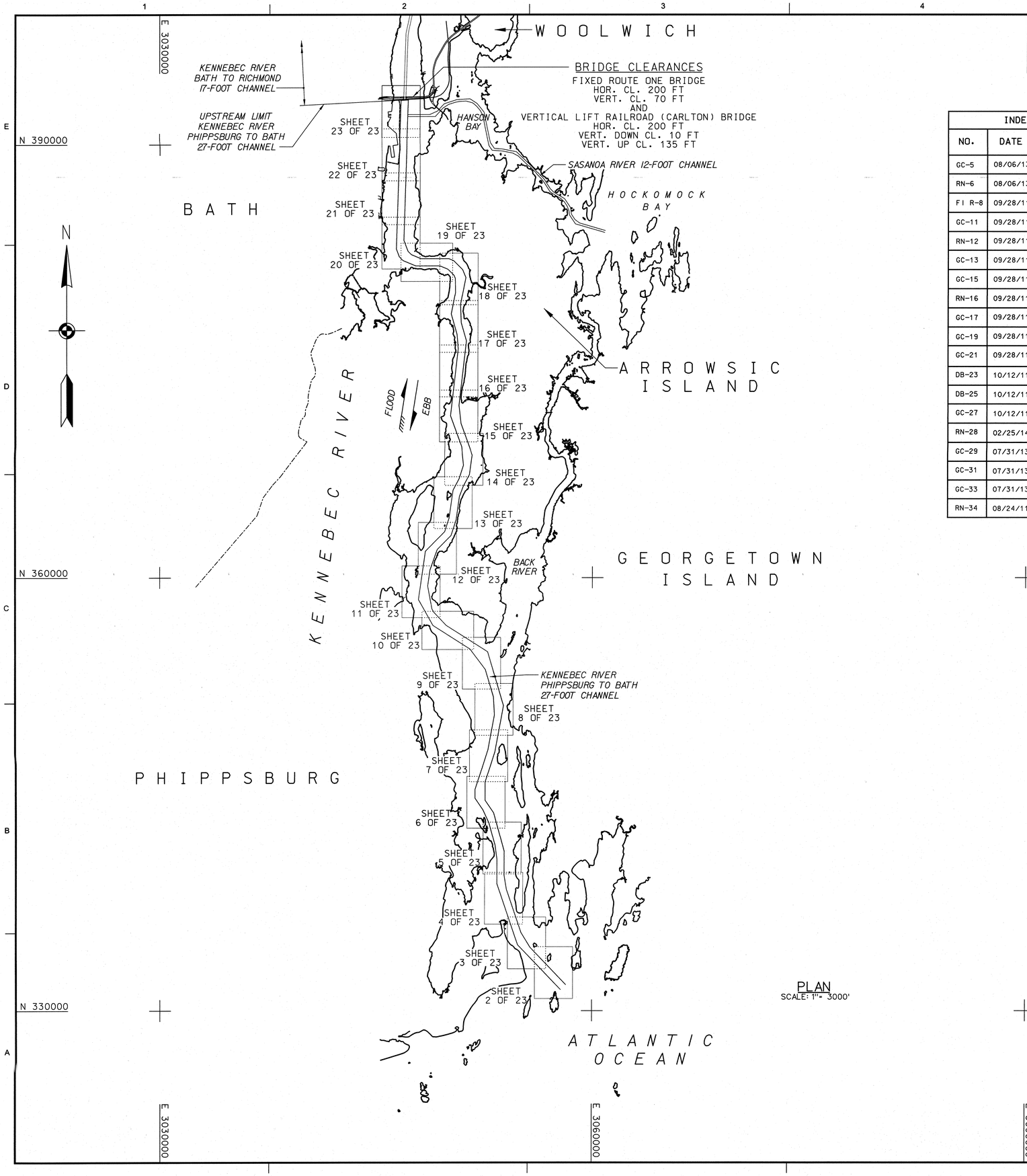
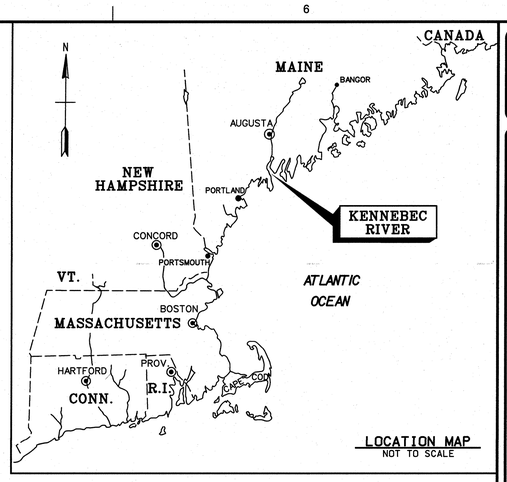


PLAN
SCALE: 1" = 3000'

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-5	08/06/13	N 333256.16 E 3055818.01	43° - 44′- 49.2″N 69° - 46′- 35.9″W
RN-6	08/06/13	N 334595.12 E 3055537.15	43° - 45′- 02.4″N 69° - 46′- 39.6″W
FI R-8	09/28/11	N 339657.82 E 3053978.96	43° - 45′- 52.5″N 69° - 47′- 00.5″W
GC-11	09/28/11	N 343714.58 E 3052570.91	43° - 46′- 32.6″N 69° - 47′- 19.4″W
RN-12	09/28/11	N 344940.75 E 3052625.79	43° - 46′- 44.7″N 69° - 47′- 18.6″W
GC-13	09/28/11	N 347868.29 E 3052707.29	43° - 47′- 13.6″N 69° - 47′- 17.3″W
GC-15	09/28/11	N 351753.60 E 3052945.08	43° - 47′- 52.0″N 69° - 47′- 13.8″W
RN-16	09/28/11	N 353587.40 E 3053124.09	43° - 48′- 10.1″N 69° - 47′- 11.3″W
GC-17	09/28/11	N 356027.92 E 3049546.25	43° - 48′- 34.4″N 69° - 47′- 59.9″W
GC-19	09/28/11	N 359836.82 E 3048081.42	43° - 49′- 12.0″N 69° - 48′- 19.7″W
GC-21	09/28/11	N 362446.98 E 3048638.90	43° - 49′- 37.8″N 69° - 48′- 11.9″W
DB-23	10/12/11	N 363565.00 E 3049741.00	43° - 49′- 48.8″N 69° - 47′- 56.8″W
DB-25	10/12/11	N 365780.00 E 3050185.00	43° - 50′- 10.6″N 69° - 47′- 50.6″W
GC-27	10/12/11	N 369731.37 E 3050477.03	43° - 50′- 49.6″N 69° - 47′- 46.4″W
RN-28	02/25/14	N 382940.64 E 3047278.75	43° - 53′- 00.2″N 69° - 48′- 29.3″W
GC-29	07/31/13	N 383236.17 E 3046410.48	43° - 53′- 03.2″N 69° - 48′- 41.1″W
GC-31	07/31/13	N 384757.81 E 3046111.70	43° - 53′- 18.2″N 69° - 48′- 45.1″W
GC-33	07/31/13	N 387813.32 E 3046438.56	43° - 53′- 48.4″N 69° - 48′- 40.4″W
RN-34	08/24/11	N 390188.40 E 3047059.88	43° - 54′- 11.8″N 69° - 48′- 31.8″W



LOCATION MAP
NOT TO SCALE

GENERAL NOTES:

1. Soundings are in feet and tenths. The reference plane is Mean Lower Low Water (MLLW) and is based on the 1983-2001 Tidal Epoch. Soundings noted with a (+) are above the reference plane of MLLW.
2. Topography shown is from previous surveys and/or NOAA Chart Nos. 13295 and 13296. 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. A Hypack KTD file was created from MLLW to NAVD88; corrections established or published in the vicinity of NOAA Bench Marks at Hunniwell Point, Kennebec River (Station ID 8417177, 02/27/2006), Bath, Kennebec River (Station ID 8417227, 02/28/2006), and Richmond, Kennebec River (Station ID 8417208, 02/27/2006). The corrections are 4.76 feet for Hunniwell Point, 3.55 feet for Bath, and 2.14 feet for Richmond. NAVD88 is above MLLW, therefore corrections should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project. Average range of tides is 8.4 feet at Hunniwell Point, 6.4 feet at Bath, and 5.3 feet at Richmond.
4. Coordinates shown are based on the Transverse Mercator Grid System for the State of Maine (West Zone 1802) NAD 1983 and are referenced to U.S. Survey Feet.
5. Survey was performed from September thru October 2011 using a Reson 7125 Multibeam Sonar System operating at 400 kHz. Popham Beach (sheets V-102 and V-103) and Doubling Point (sheets V-120 thru V-122) were updated in July and August 2013 using an Odom MK 2 Echo Sounder operating at 200 kHz. Areas on sheets V-112, V-115, V-116, V-118, V-122 and V-123 were updated in February 2014 using a R2 Sonic Multibeam Sonar System operating at 300 kHz. Horizontal positioning and real time tide readings were recorded utilizing a Leica 1200 GPS System. The RTK base stations used were Station BM 2 (1942/2010) and Station Snow (2010).
6. The sounding information shown on these charts represents the SHOALEST soundings of those obtained from hydrographic surveys conducted from September thru October 2011 and during July 2013, August 2013 and February 2014.
7. The sounding information depicted on these charts 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 charts 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. Cable Area locations are referenced from NOAA Charts No. 13295 (12th Ed., May 2013) and No. 13296 (26th Ed., January 2012) and are shown as thus: ————————————————
10. Field Books: R&H 4541, 4542 and 4464
    27-Foot depth contour shown thus: ————————
    Surveyed by: Jeffrey W. Preston and crew (2011)
    Paul K. O'Brien and crew (2013)
    Robert MacGovern and crew (2014)
    Refer to Survey Nos. 10-1074, 13-1274, 13-1283, 13-1284 and 14-1303

GRAPHIC SCALE:
1" = 3000'
3000 0 3000 6000

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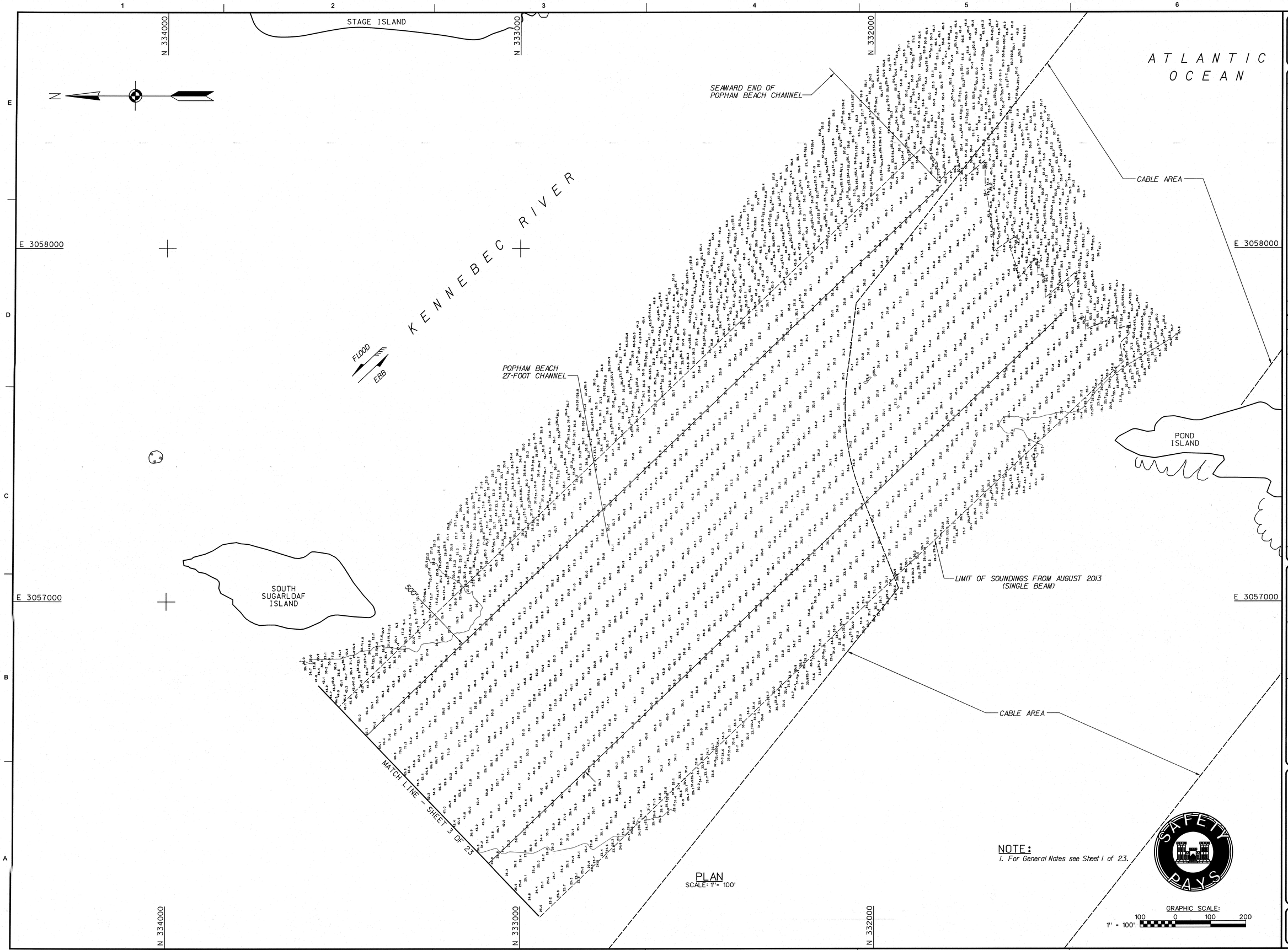
REVIEWED BY: Richard Rosta
Asst. Chief, Survey Section
SUBMITTED BY: Jeffrey W. Preston
Chief, Coastal Survey Section

DATE: 5/1/2014
DWN BY: SWK
CKD BY: JWP
DESIGN FILE: KEN-2702
DRAWING CODE: KEN-2702
PLOT SCALE: 1" = 3000'
PLOT DATE: 5/1/2014
DGN: ANSI F
FILE NAME: KEN2702V101.dgn

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 23



PLAN
SCALE: 1" = 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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

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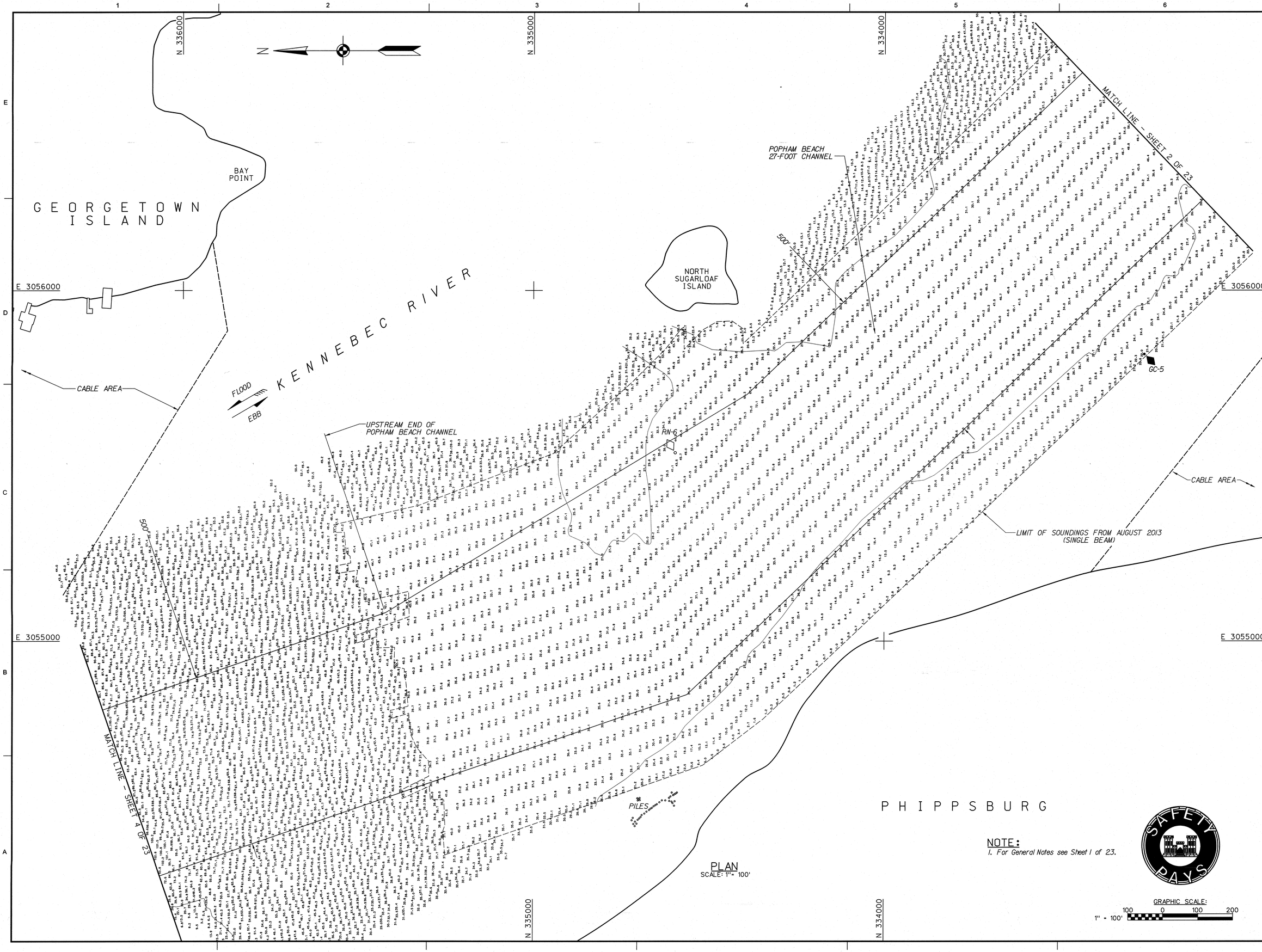
REVIEWED BY: Anthony Paton
Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 5/1/2014
DWN BY: SWK
CKD BY: JWP
DESIGN FILE: KENHSP3.DGN
DRAWING CODE: KEN-2732
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
SIZE: ANSI F
FILE NAME: KEN2732V-102.dgn

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-102
SHEET 2 OF 23



PLAN
SCALE: 1"= 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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

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REVIEWED BY: Anthony Paton
Chief, Chief, Survey Section
SUBMITTED BY: Tim Tarr
Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
SIZE: ANSI F
FILE NAME: KEN2732V-103.dgn
DATE: 5/1/2014
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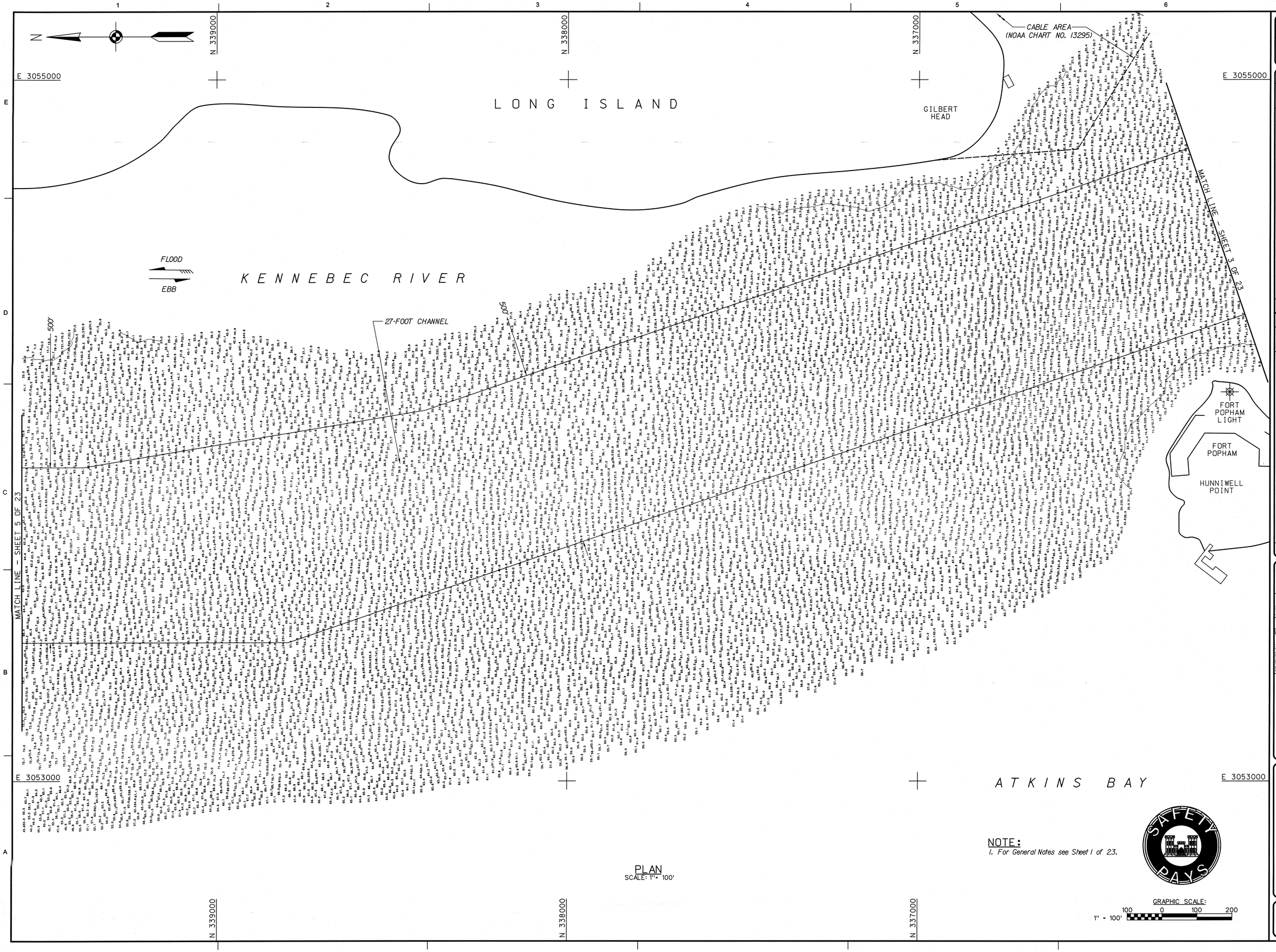
CKD BY: JWP
DESIGN FILE: KENHSP3.DGN
DRAWING CODE: KEN-2732

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-103
SHEET 3 OF 23



PLAN
SCALE: 1"= 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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

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REVIEWED BY: Anthony Pratt
Chief, Chief, Survey Section
SUBMITTED BY: Mike Brown
Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
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FILE NAME: KEN2732V-104.dgn
DATE: 5/1/2014
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CKD BY: JWP
DESIGN FILE: KENNSP3.DGN
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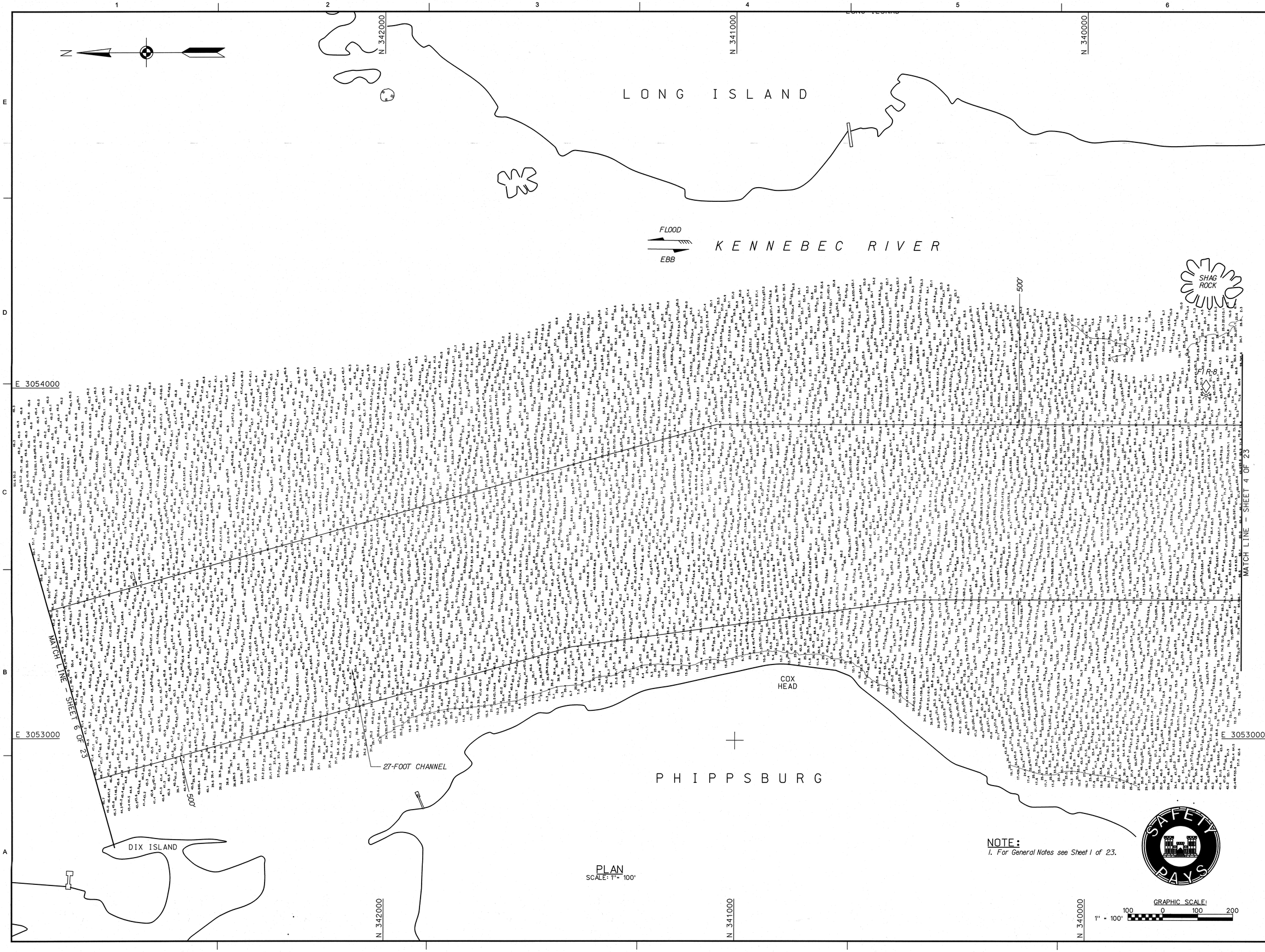
KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-104
SHEET 4 OF 23



PLAN
SCALE: 1"= 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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REVIEWED BY: Chief, Civil Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
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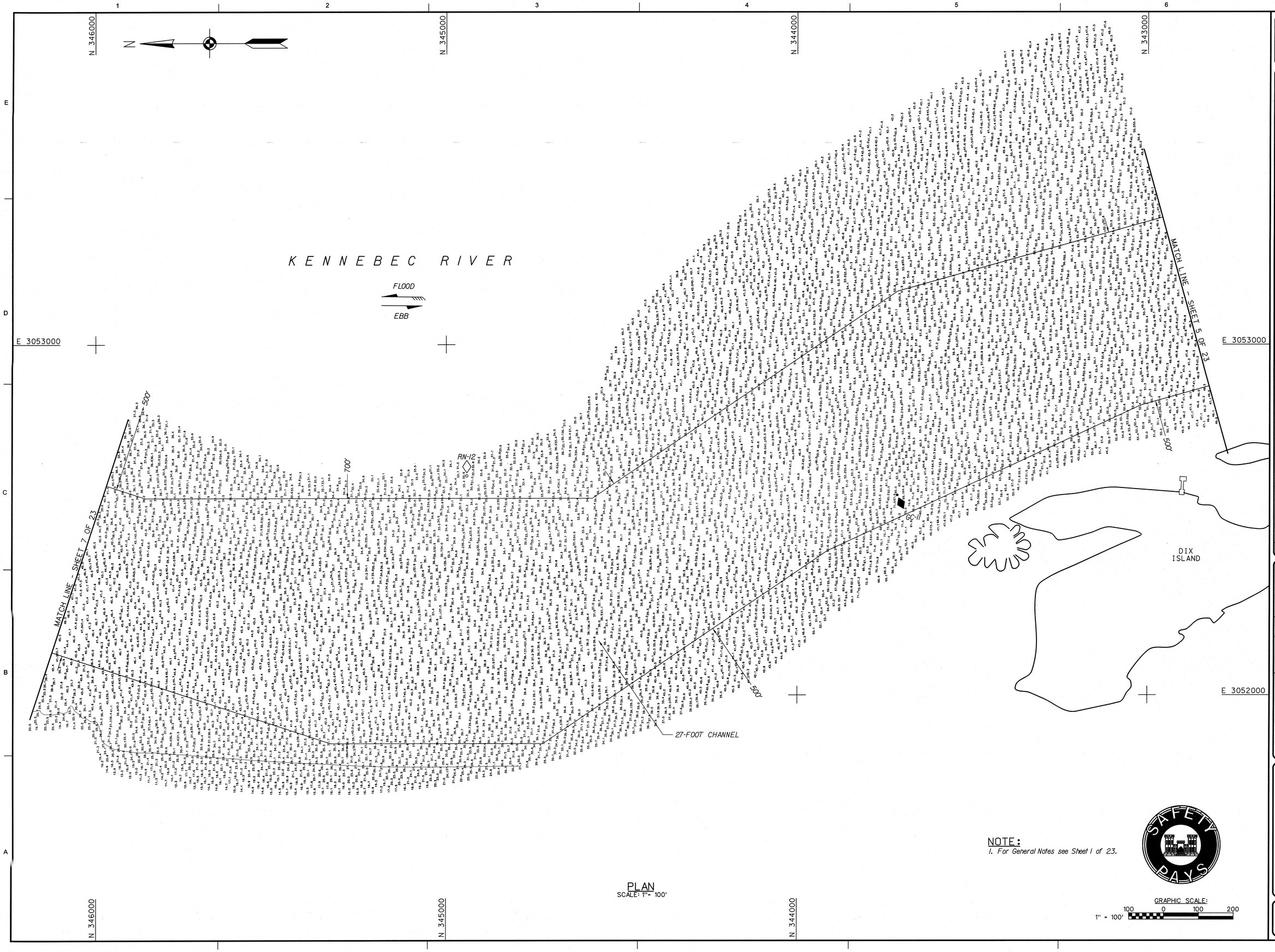
KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-105
SHEET 5 OF 23



PLAN
SCALE: 1"= 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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

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REVIEWED BY: Jeffrey Peterson
Chief, Chief, Survey Section
SUBMITTED BY: Mark Mahan
Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
SIZE: ANSI F
FILE NAME: KEN2732V-106.dgn
DATE: 5/1/2014
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CKD BY: JWP
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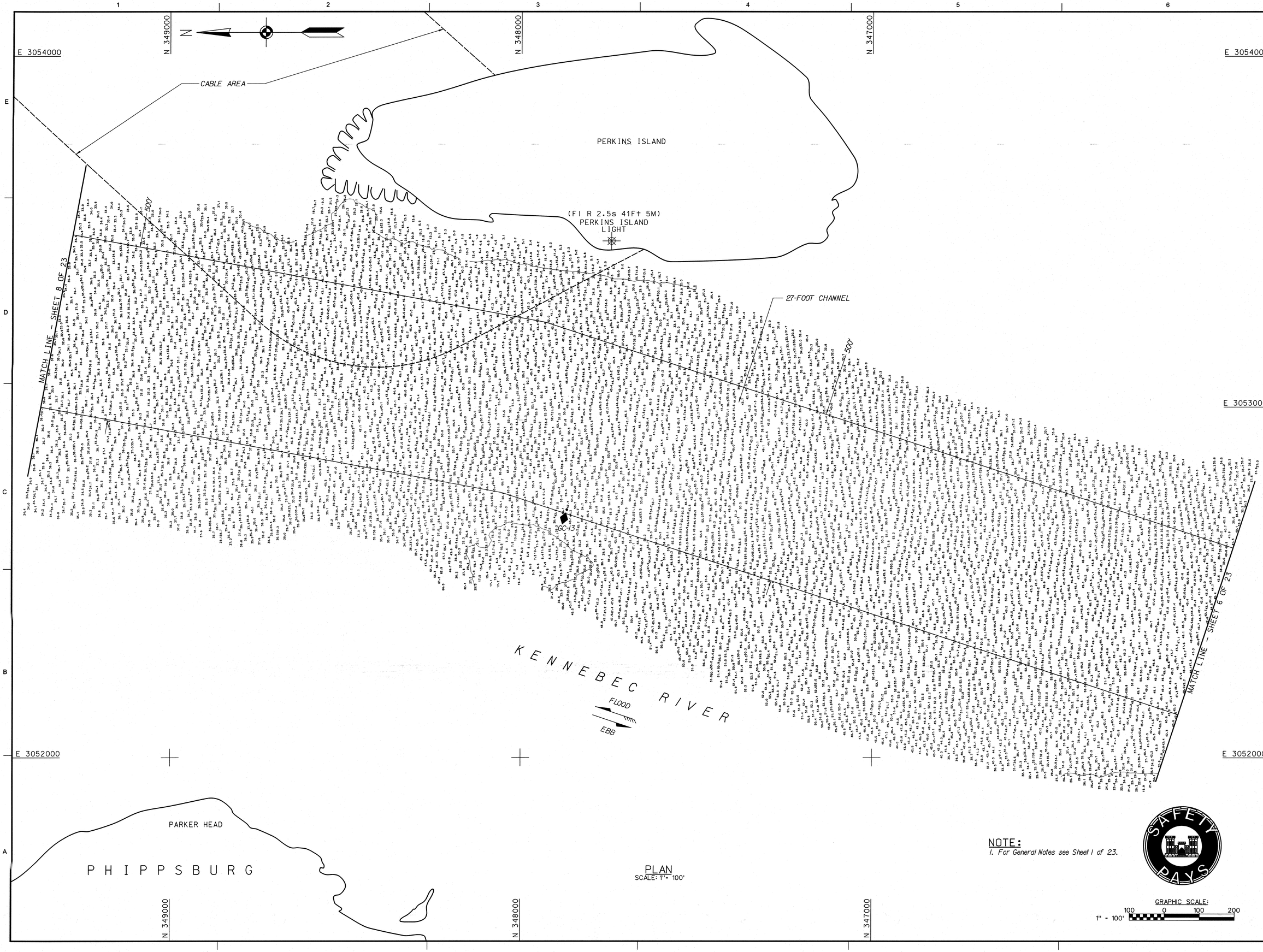
DRAWING CODE: KEN-2732

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-106
SHEET 6 OF 23



PLAN
SCALE: 1"= 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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

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REVIEWED BY: Anthony Pratt
Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
SIZE: ANSI F
FILE NAME: KEN27320V-107.dgn
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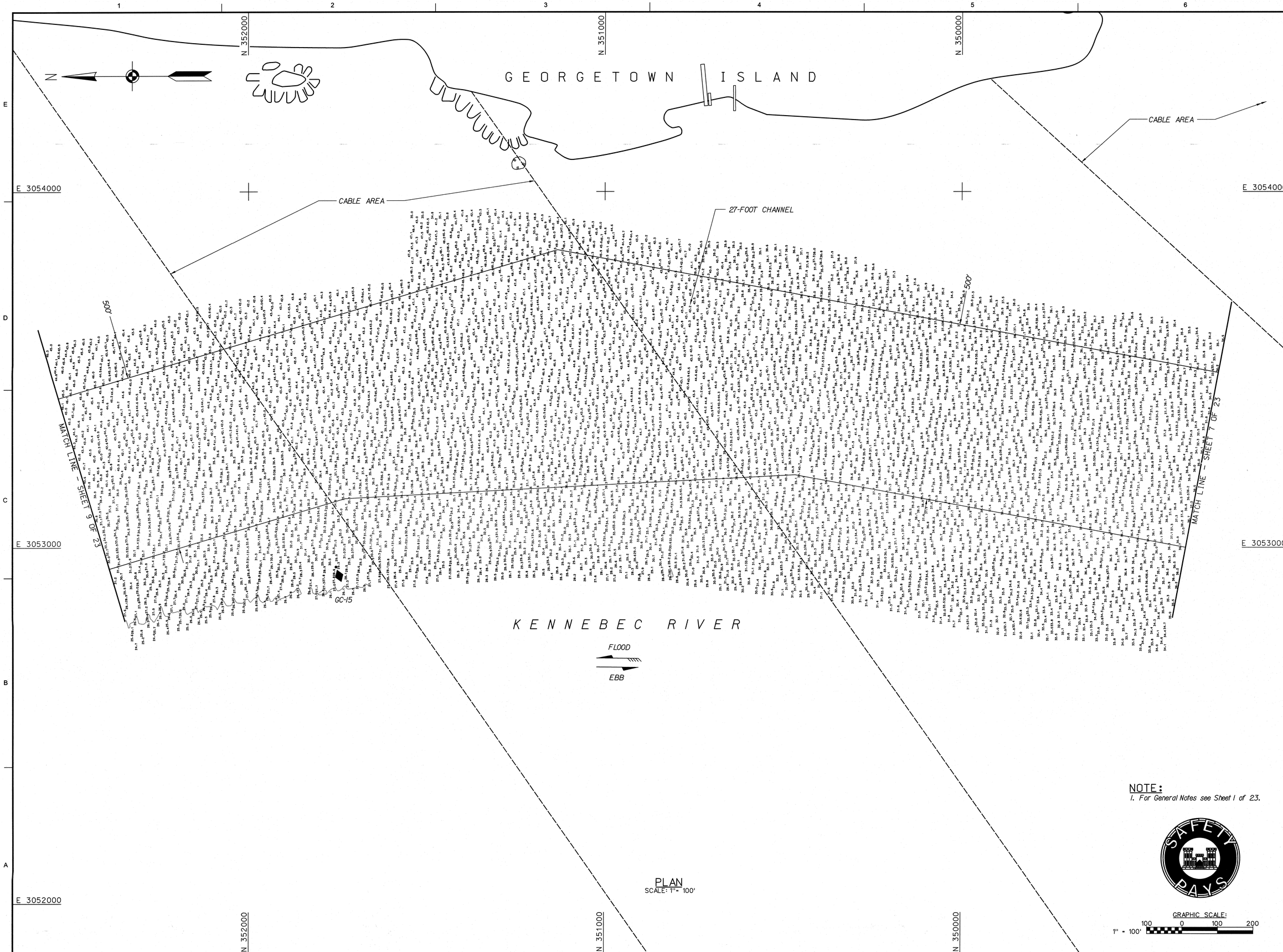
KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-107
SHEET 7 OF 23



PLAN
SCALE: 1" = 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

SAFETY PAYS

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

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REVIEWED BY: Anthony Paxton
Asst. Chief, Survey Section
SUBMITTED BY: Mary Sullivan
Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
SIZE: ANSI F
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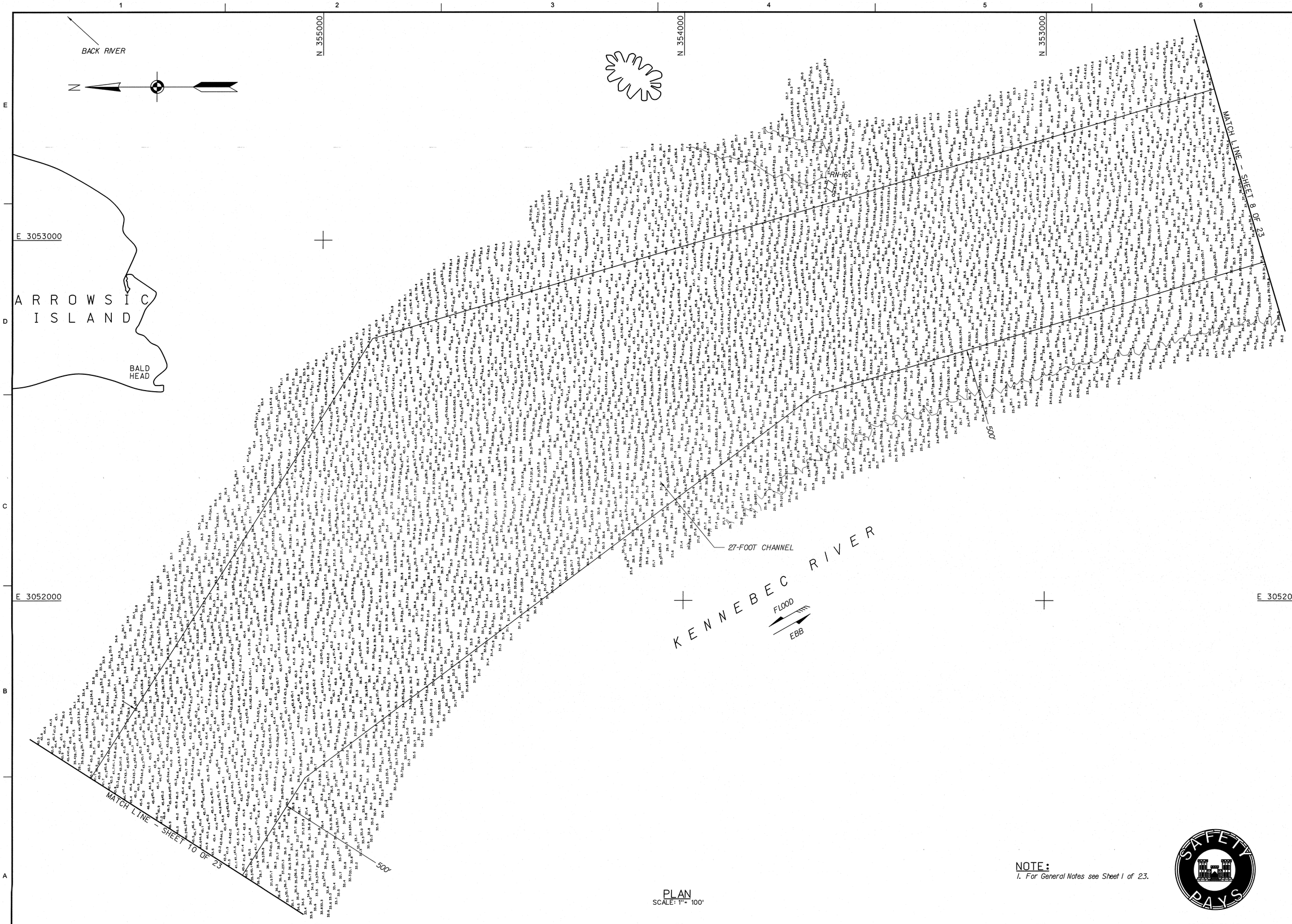
DRAWING CODE: KEN-2732

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-108
SHEET 8 OF 23



PLAN
SCALE: 1" = 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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

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REVIEWED BY: Jeffrey Porter
Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
SIZE: ANSI F
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DATE: 5/1/2014
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CKD BY: JWP
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KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-109
SHEET 9 OF 23

PLAN
SCALE: 1" = 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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REVIEWED BY: Kelley Rodin
Chief, Survey Section
SUBMITTED BY: Mike Thomas
Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
SIZE: ANSI F
FILE NAME: KEN2732V-110.dgn
DATE: 5/1/2014
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CKD BY: JWP
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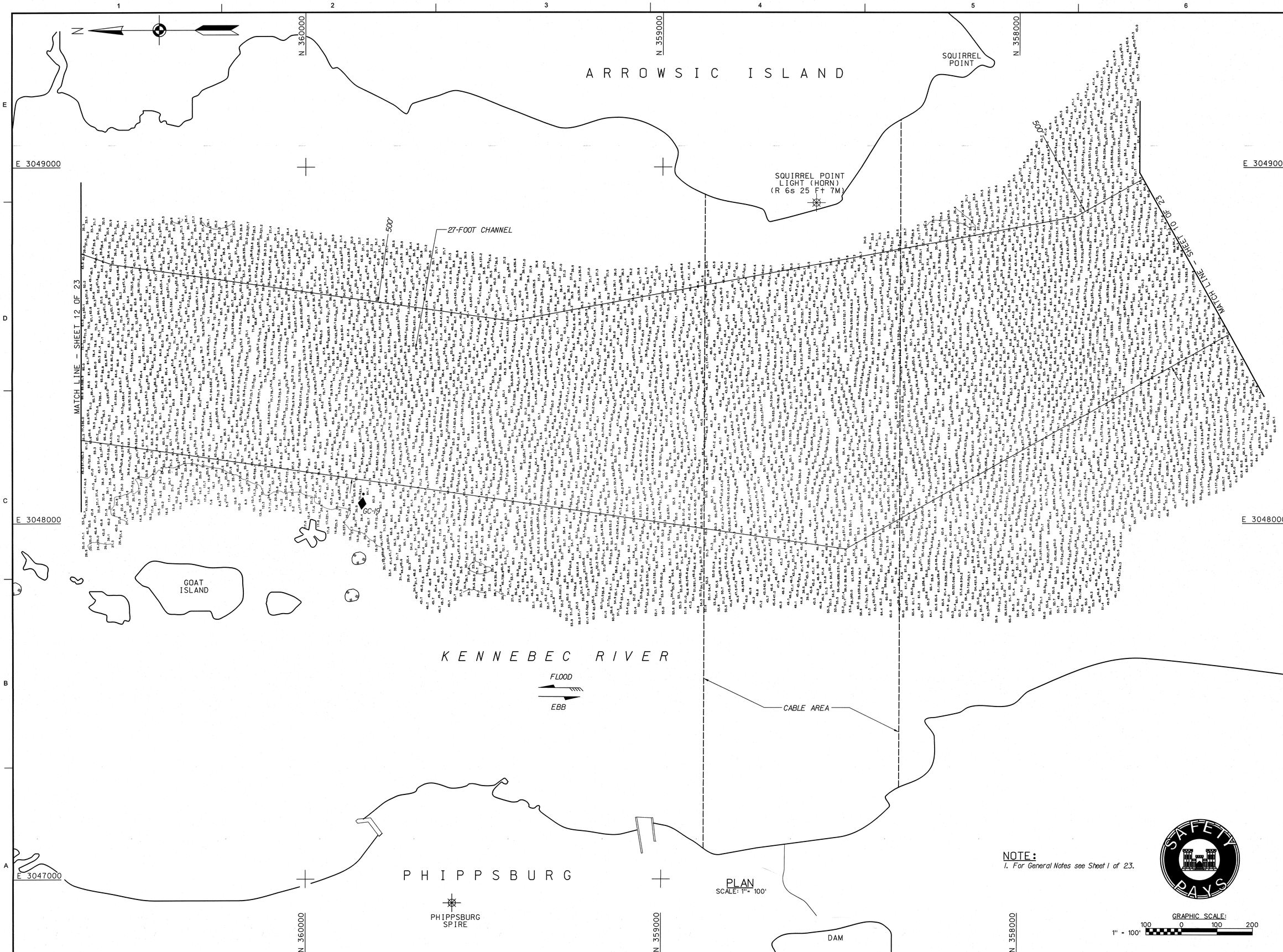
DRAWING CODE: KEN-2732

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-110
SHEET 10 OF 23



PLAN
SCALE: 1"= 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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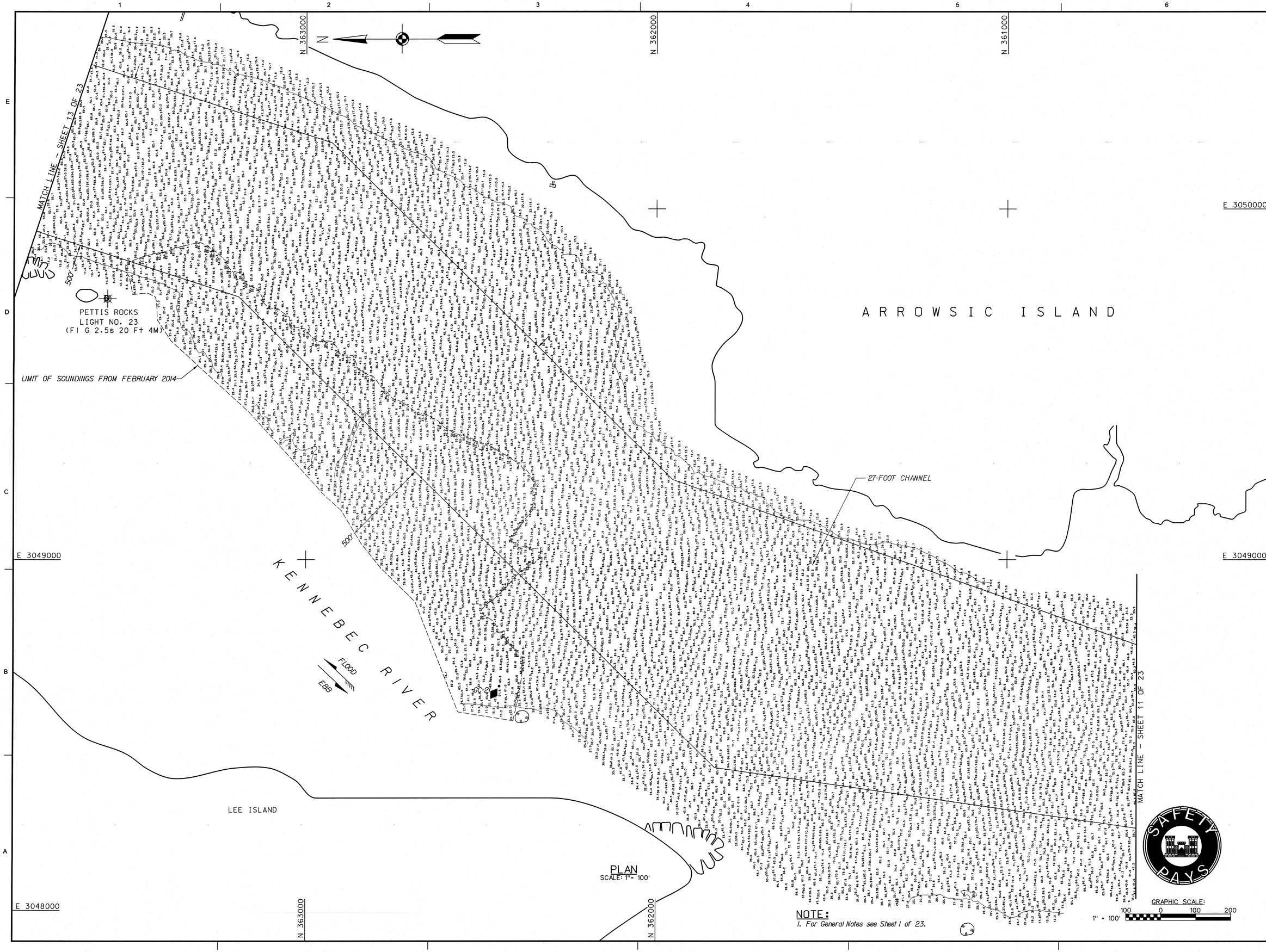
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
SIZE: ANSI F
PLOT DATE: 5/1/2014
FILE NAME: KEN2732V-111.dgn
DATE: 5/1/2014
DWN BY: SWK
CKD BY: JWP
DESIGN FILE: KENHSP.DGN
DRAWING CODE: KEN-2732

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-111
SHEET 11 OF 23



PLAN
SCALE: 1"= 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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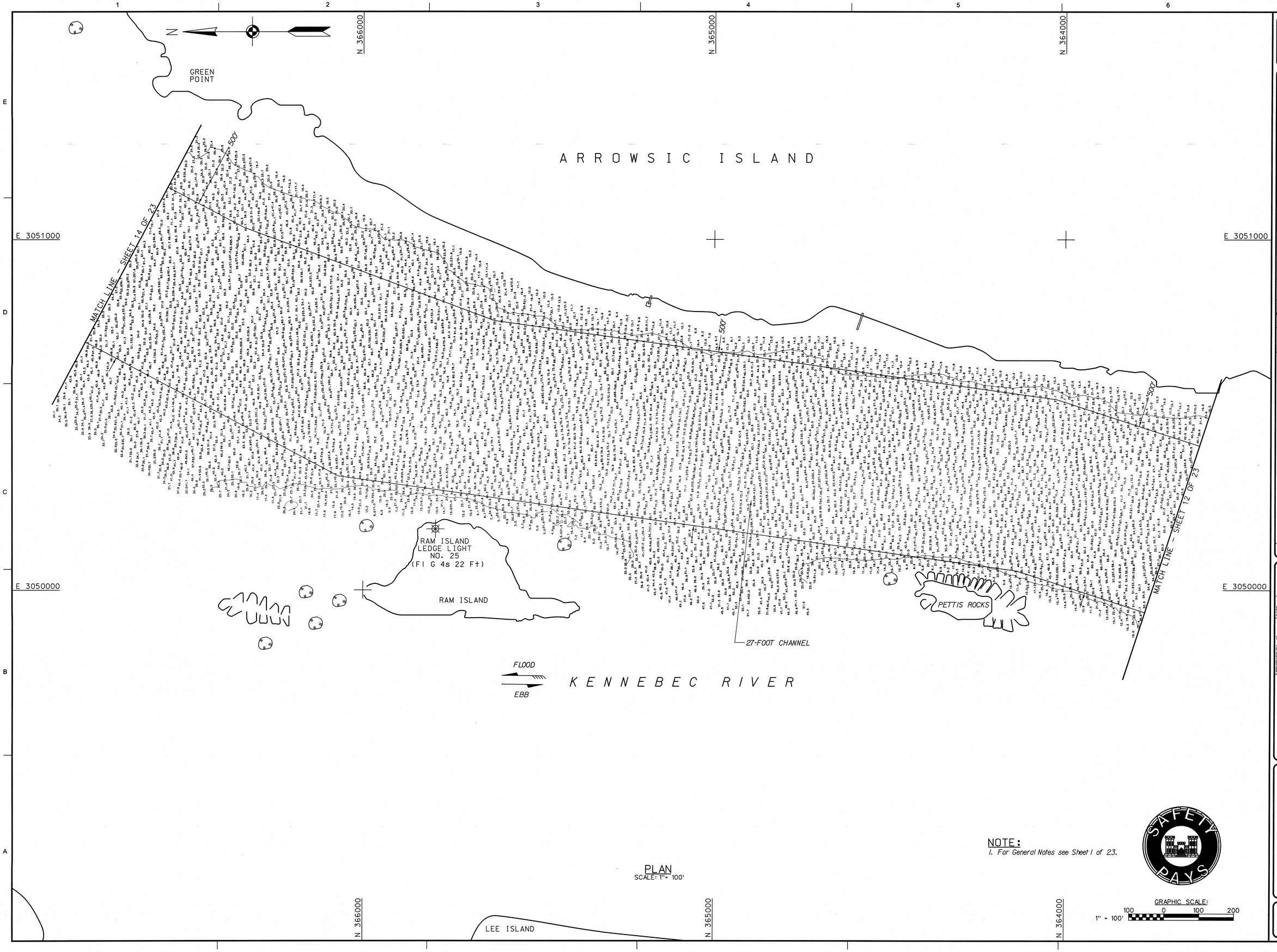
REVIEWED BY: Jeffrey Peter
Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
SIZE: ANSI F
FILE NAME: KEN27320-V112.dgn
DATE: 5/1/2014
DWN BY: SWK
CKD BY: JWP
DESIGN FILE: KENHSP3.DGN
DRAWING CODE: KEN-2732

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-112
SHEET 12 OF 23



PLAN
SCALE: 1" = 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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

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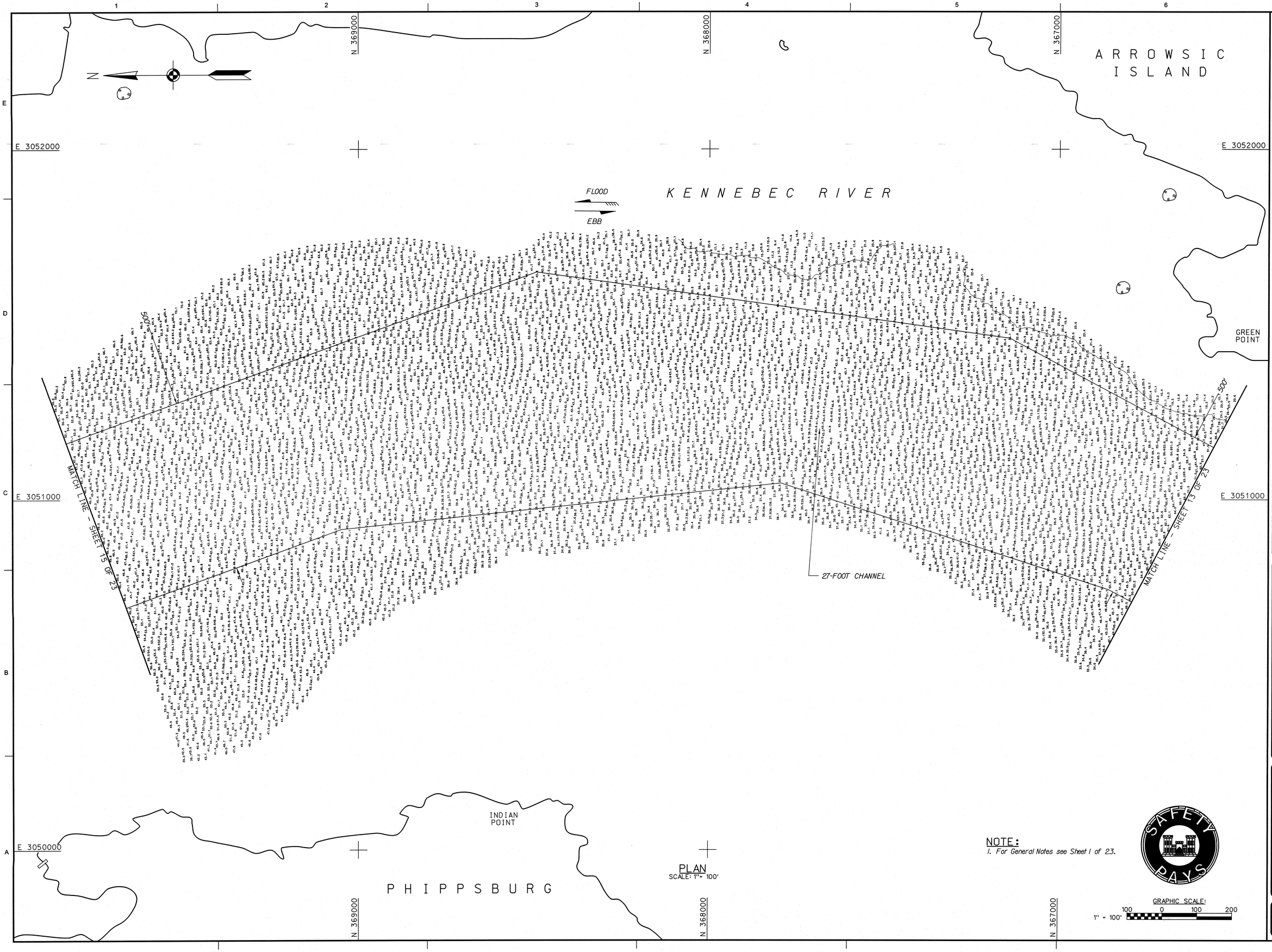
REVIEWED BY: Daniel Paxton
Chief, Chief, Survey Section
SUBMITTED BY: Mark Mitchell
Chief, Survey Section
PLOT SCALE: 1" = 100'
SIZE: ANSI F
PLOT DATE: 5/1/2014
FILE NAME: KEN27320V-113.dgn
DATE: 5/1/2014
DWN BY: SWK
CKD BY: JWP
DESIGN FILE: KENNSP3.DGN
DRAWING CODE: KEN-2732

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-113
SHEET 13 OF 23



PLAN
SCALE: 1" = 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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

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MARK	DESCRIPTION	DATE	APPR

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REVIEWED BY: Jeffrey Preston
Asst. Chief, Survey Section
SUBMITTED BY: Jeffrey Preston
Chief, Survey Section
DATE: 5/1/2014
DWN BY: SWK
CKD BY: JWP
DESIGN FILE: KENNSP3.DGN
DRAWING CODE: KEN-2732
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
SIZE: ANSI F
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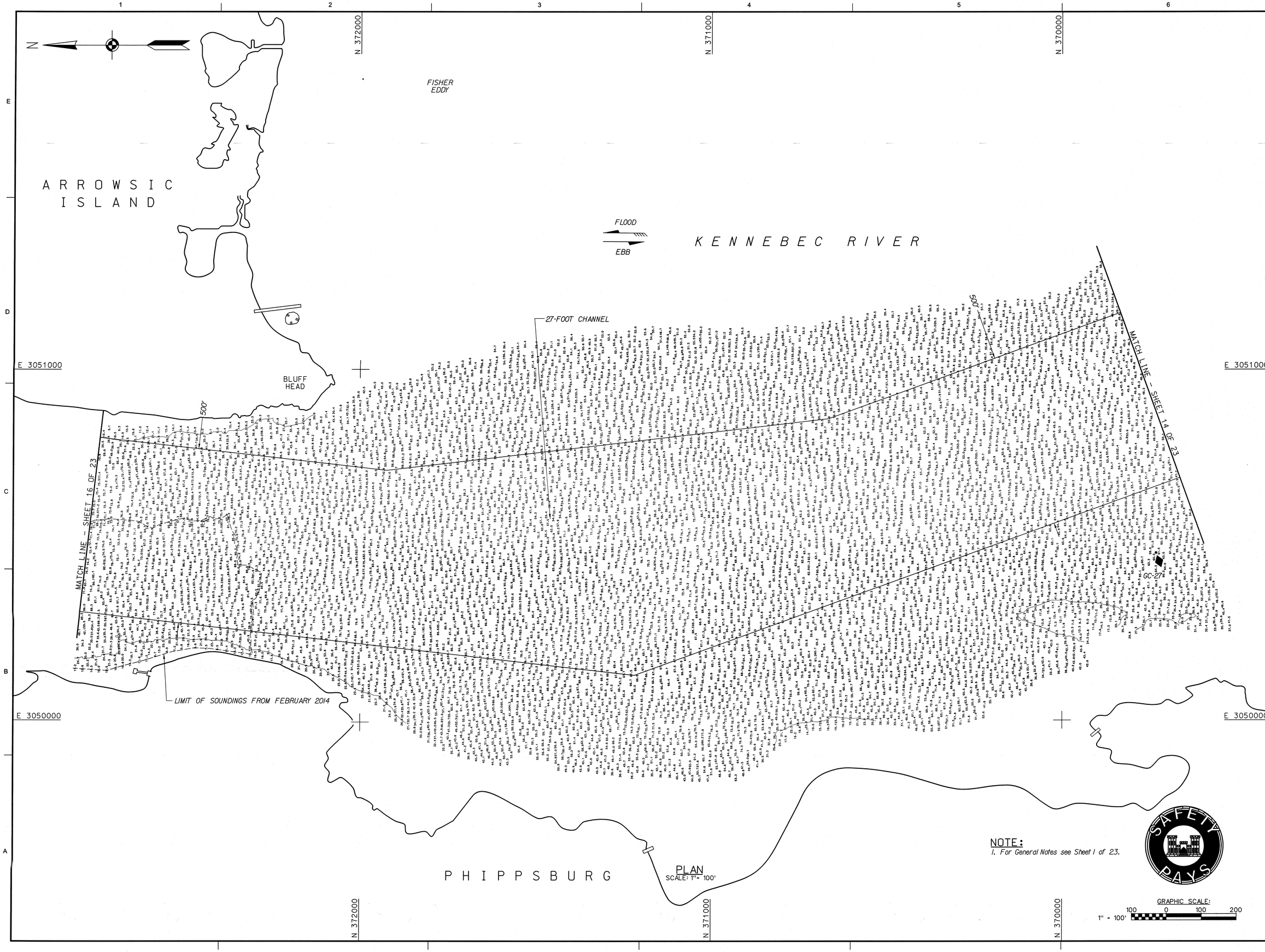
KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-114
SHEET 14 OF 23



PLAN
SCALE: 1" = 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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

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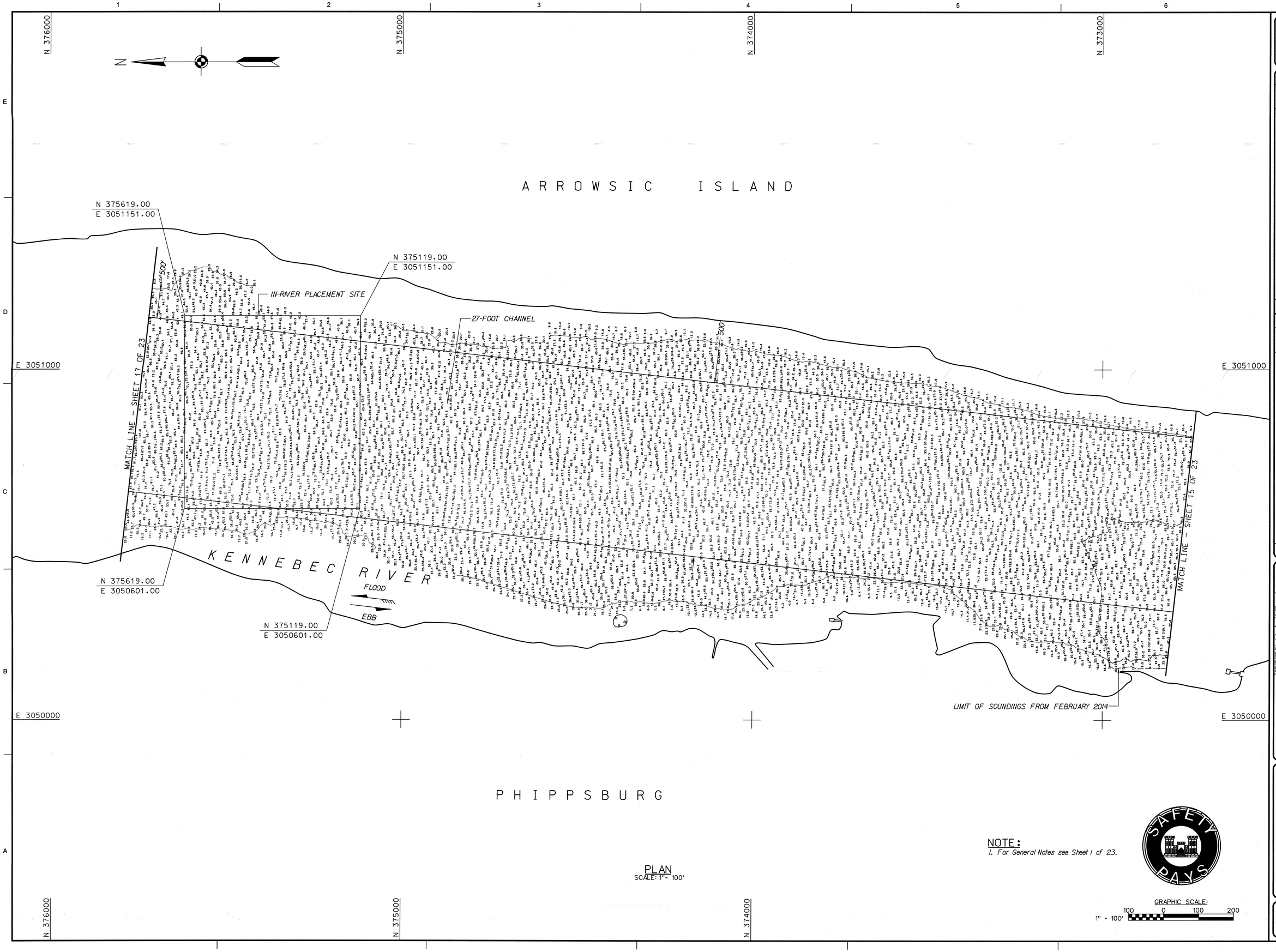
REVIEWED BY: Jeffrey Patton
Asst. Chief, Survey Section
SUBMITTED BY: Jeffrey Patton
Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
SIZE: ANSI F
FILE NAME: KEN27321-115.dgn
DATE: 5/1/2014
DWN BY: SWK
CKD BY: JWP
DESIGN FILE: KENHSP3.DGN
DRAWING CODE: KEN-2732

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-115
SHEET 15 OF 23



PLAN
SCALE: 1" = 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

SAFETY PAYS

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

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MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

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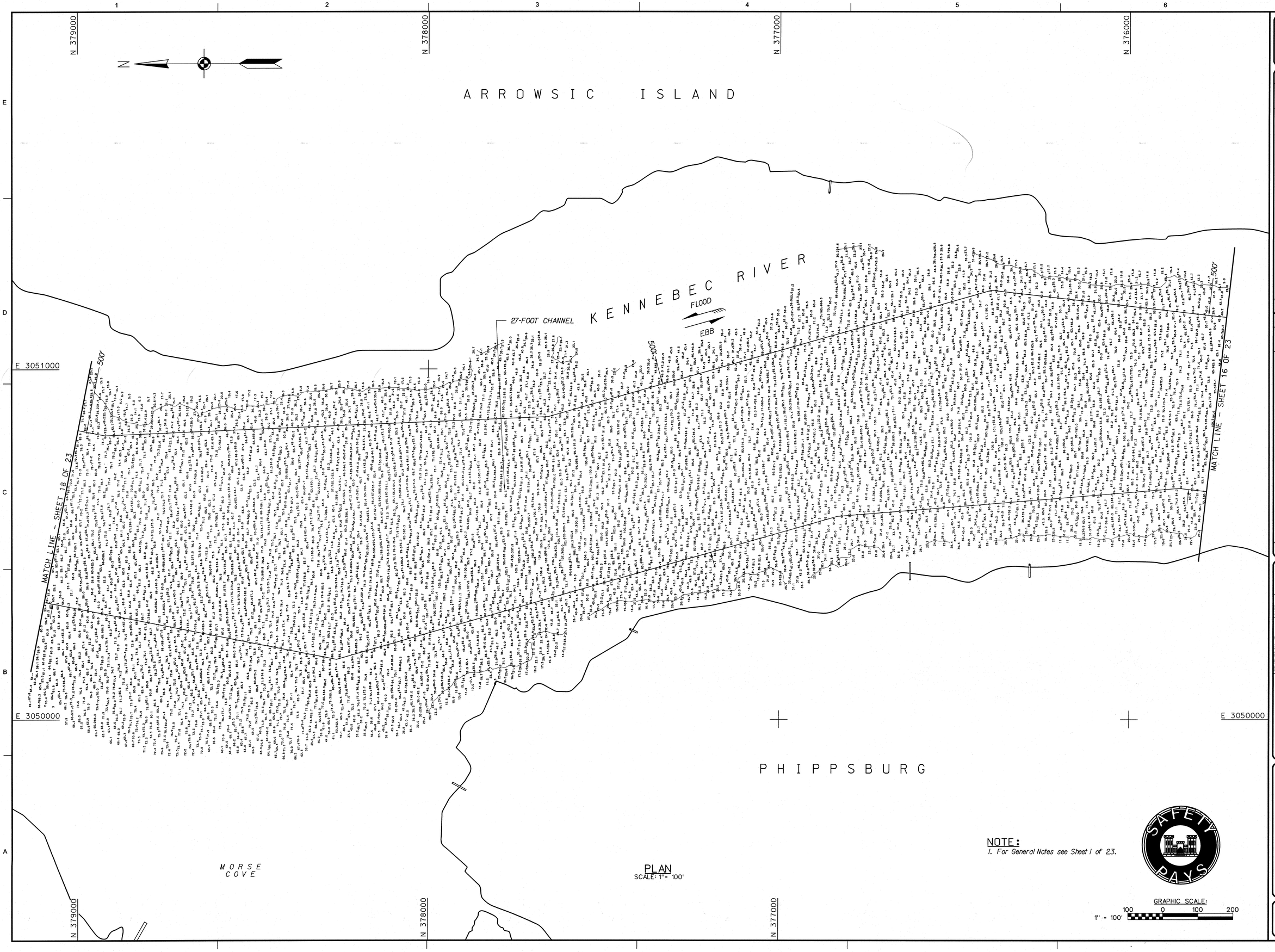
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Anthony Fredon
Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
SIZE: ANSI F
FILE NAME: KEN2732V-116.dgn
DATE: 5/1/2014
DWN BY: SWG
CKD BY: JWP
DESIGN FILE: KENNSP3.DGN
DRAWING CODE: KEN-2732

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-116
SHEET 16 OF 23



PLAN
SCALE: 1" = 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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

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MARK	DESCRIPTION	DATE	APPR

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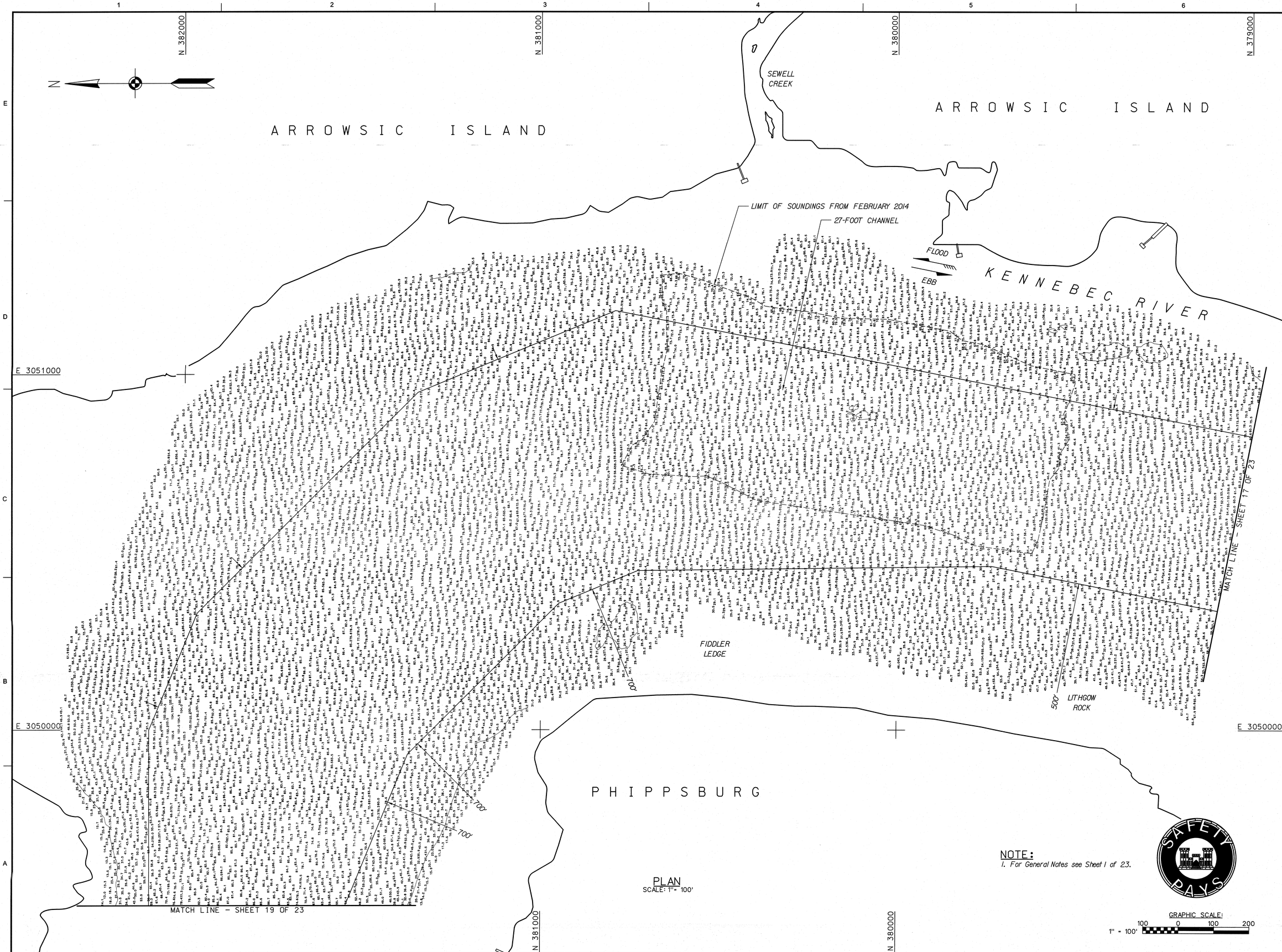
www.nae.usace.army.mil

REVIEWED BY: Jeff Lucy Peeler
Asst. Chief, Survey Section
SUBMITTED BY: Mark Sullivan
Chief, Survey Section
PLOT SCALE: 1" = 100'
SIZE: ANSI F
FILE NAME: KEN27320V-117.dgn
PLOT DATE: 5/1/2014
DATE: 5/1/2014
DWN BY: SWK
CKD BY: JWP
DESIGN FILE: KENHSP3.DGN
DRAWING CODE: KEN-2732

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-117
SHEET 17 OF 23



PLAN
SCALE: 1" = 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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

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MARK	DESCRIPTION	DATE	APPR

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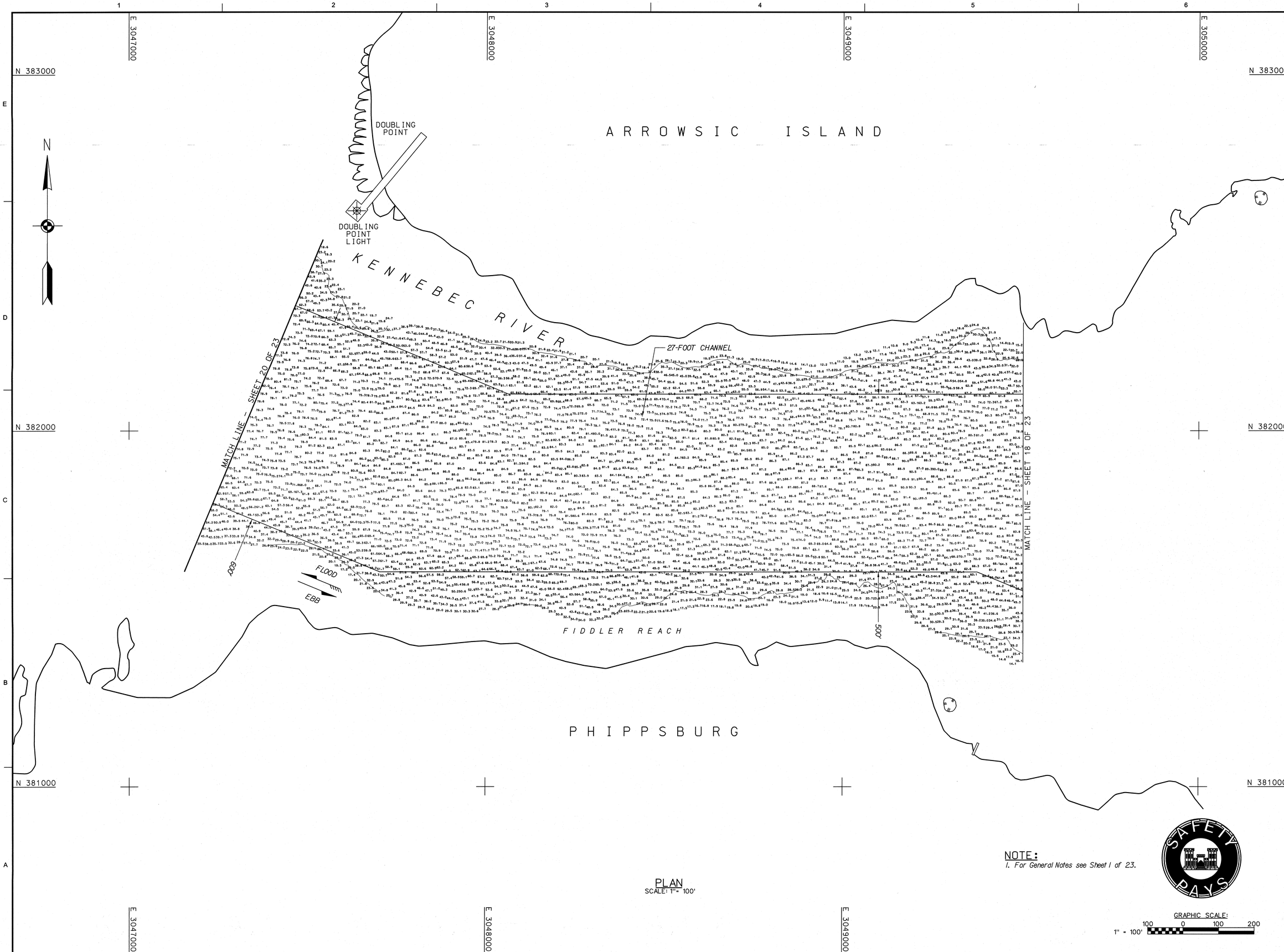
REVIEWED BY: Hilary Paxton
Asst. Chief, Survey Section
SUBMITTED BY: Mr. Tom Morris
Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 11/2014
SIZE: ANSI F
FILE NAME: KEN2732V-118.dgn
DATE: 5/1/2014
DWN BY: SWK
CKD BY: JWP
DESIGN FILE: KENNSP3.DGN
DRAWING CODE: KEN-2732

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-118
SHEET 18 OF 23



PLAN
SCALE: 1" = 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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

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MARK	DESCRIPTION	DATE	APPR

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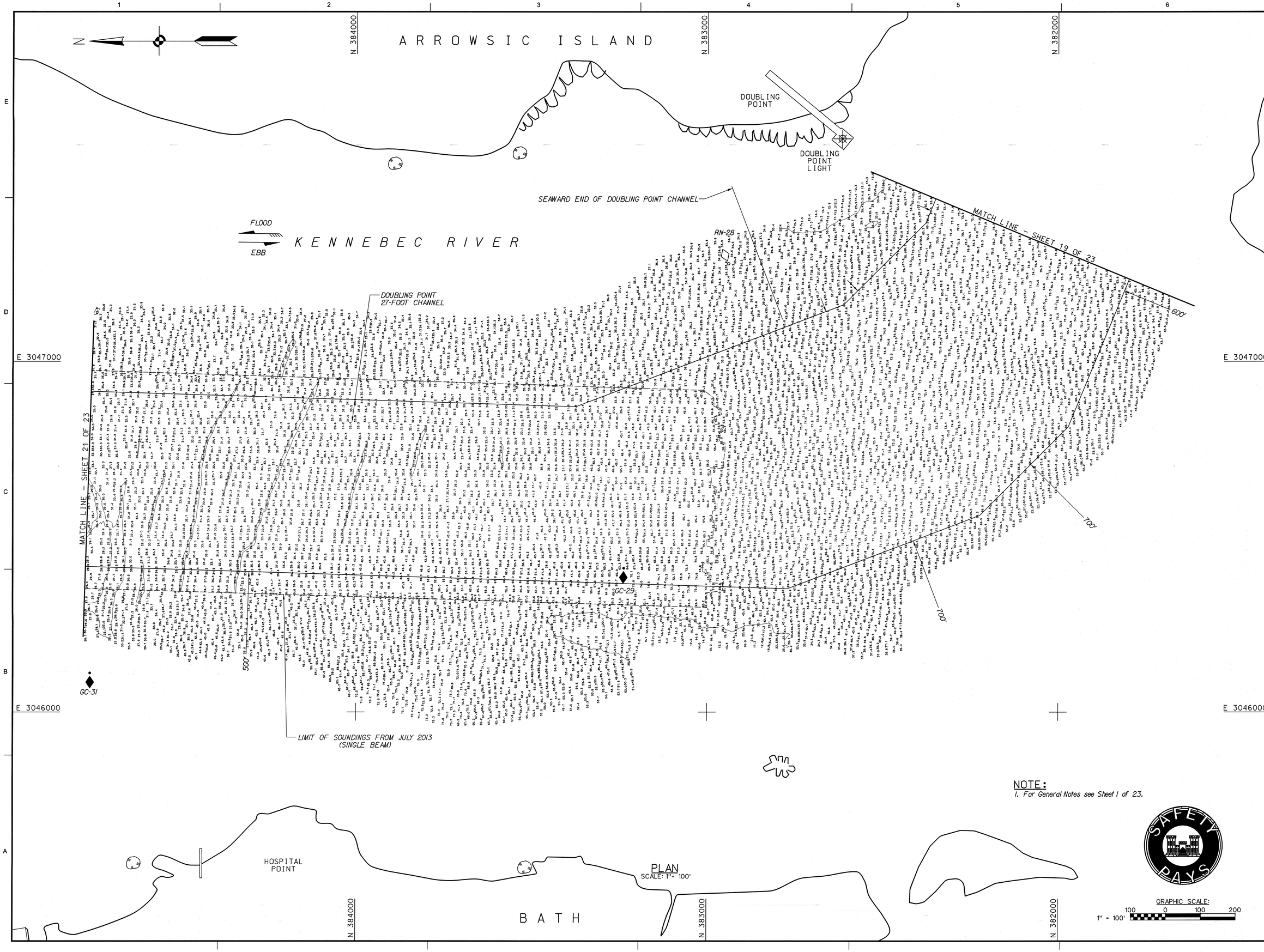
REVIEWED BY: Chief, Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
SIZE: ANSI F
FILE NAME: KEN27S2V-119.dgn
DATE: 5/1/2014
DWN BY: SWP
CKD BY: JWP
DESIGN FILE: KENHSP3.DGN
DRAWING CODE: KEN-27S2

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-119
SHEET 19 OF 23



PLAN
SCALE: 1"= 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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

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MARK	DESCRIPTION	DATE	APPR

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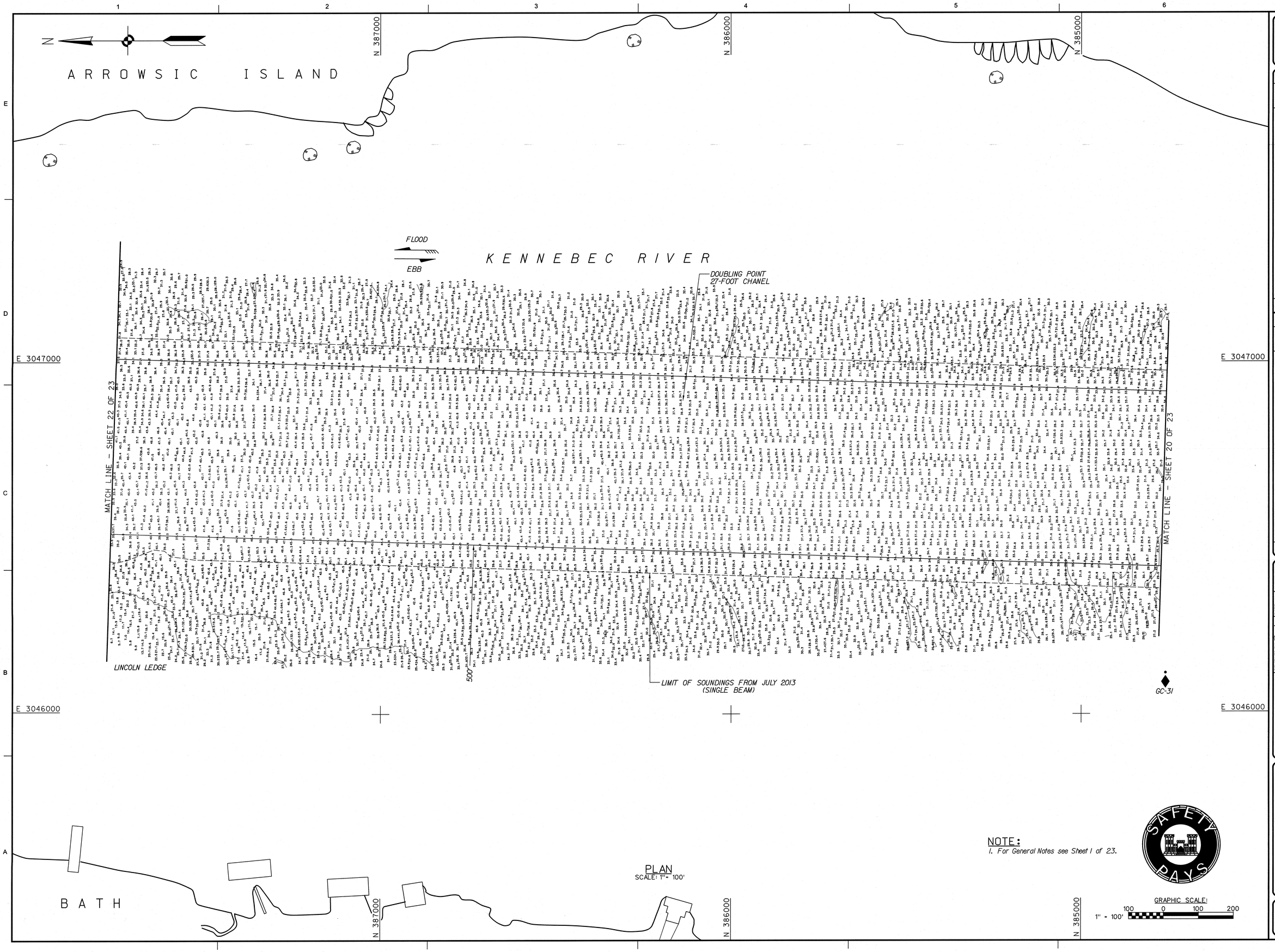
REVIEWED BY: Anthony Paxton
Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
SIZE: ANSI F
FILE NAME: KEN27320V-120.dgn
DATE: 5/1/2014
DWN BY: SWK
CKD BY: JWP
DESIGN FILE: KENNSP3.DGN
DRAWING CODE: KEN-2732

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-120
SHEET 20 OF 23



PLAN
SCALE: 1" = 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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

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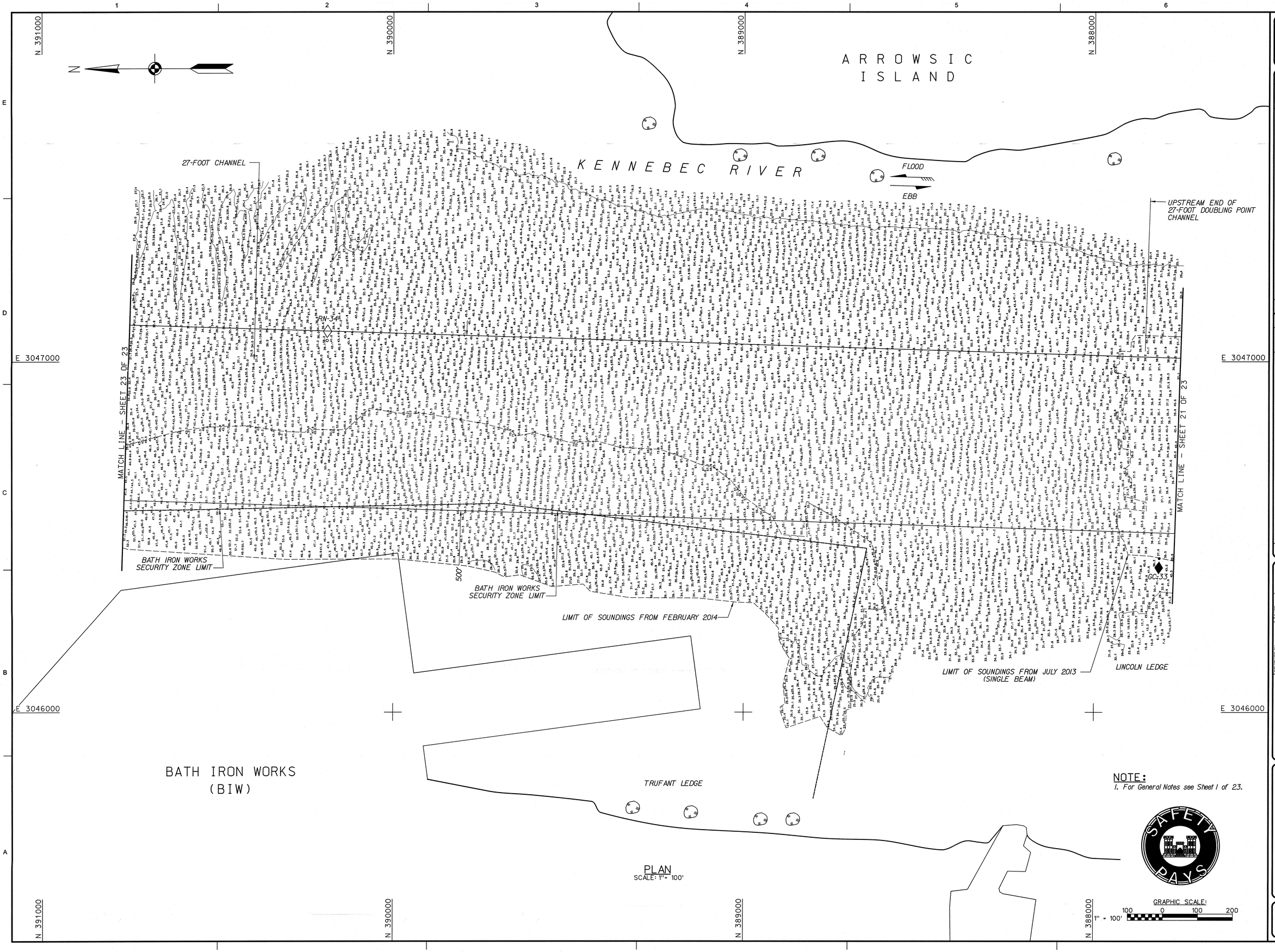
REVIEWED BY: Jeffrey Porter
Asst. Chief, Survey Section
SUBMITTED BY: Mike Lawrence
Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 5/12/2014
SIZE: ANSI F
FILE NAME: KEN2732V-121.dgn
DATE: 5/1/2014
DWN BY: SWK
CKD BY: JWP
DESIGN FILE: KENNEBEC.DGN
DRAWING CODE: KEN-2732

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-121
SHEET 21 OF 23



PLAN
SCALE: 1" = 100'

NOTE:
1. For General Notes see Sheet 1 of 23.

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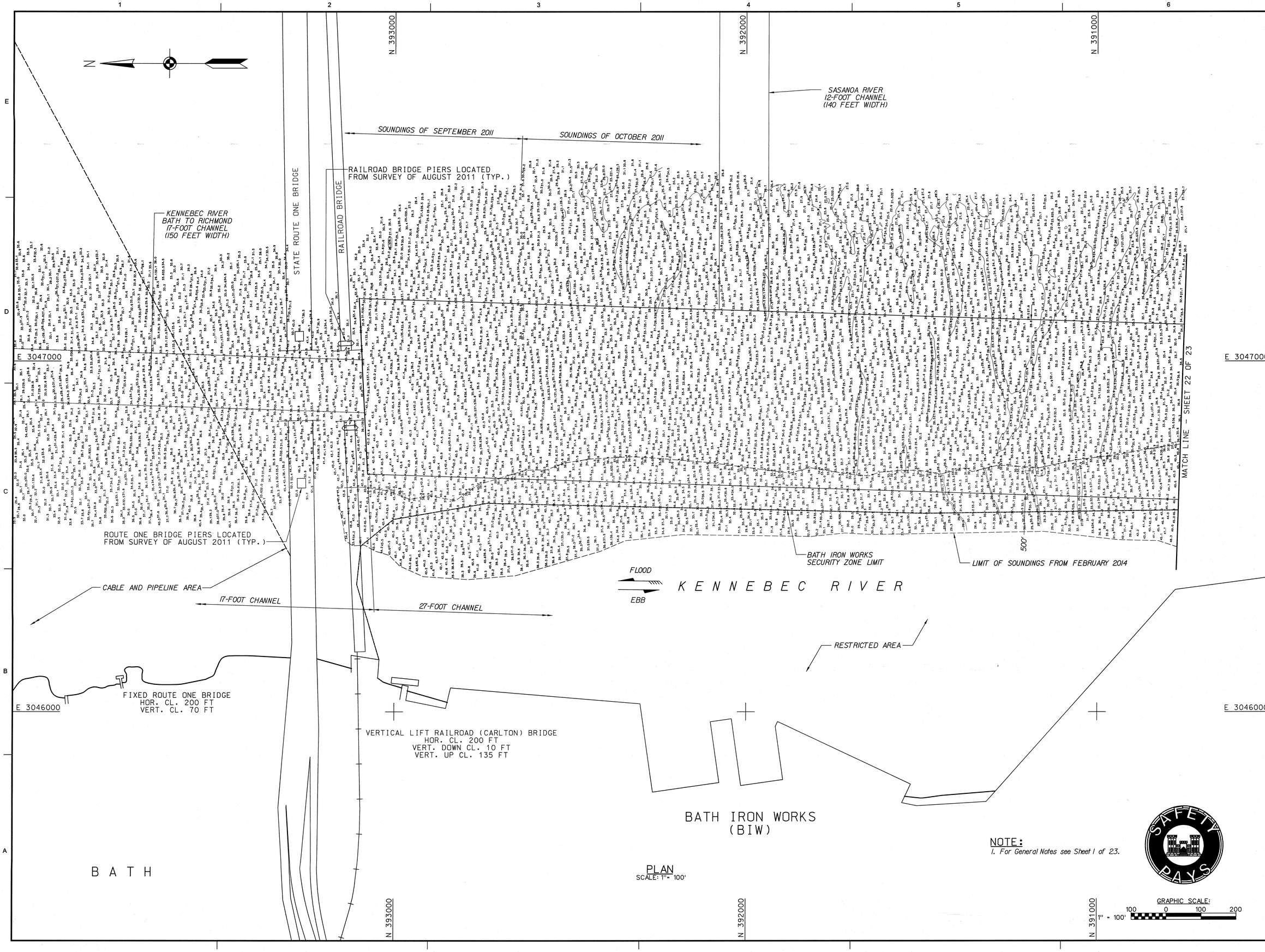
REVIEWED BY: Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 5/1/2014
DWN BY: SWK
CKD BY: JWP
DESIGN FILE: KENNSP3.DGN
DRAWING CODE: KEN-2732
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
SIZE: ANSI F
FILE NAME: KEN2732V-122.dgn

KENNEBEC RIVER
PHIPPSBURG TO BATH, MAINE
CONDITION SURVEY

27-FOOT CHANNEL

SHEET IDENTIFICATION
V-122
SHEET 22 OF 23



NOTE:
1. For General Notes see Sheet 1 of 23.

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MARK	DESCRIPTION	DATE	APPR.

REVIEWED BY: Anthony Ricciardi 5/1/2014
Asst. Chief, Survey Section
SUBMITTED BY: Thomas J. Fitzpatrick 5/1/2014
Chief, Survey Section
DATE: 5/1/2014
DWN BY: RMK, JMP
CKD BY: JWP
PROJECT NAME: KENNEBEC DGN
DRAWING CODE: KEN-27T2
PLOT SCALE: 1" = 100'
PLOT DATE: 5/1/2014
FILE SIZE: ANSI F
FILE NAME: KEN27T2X-123.dgn

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27-FOOT CHANNEL

SHEET IDENTIFICATION
V-123
SHEET 23 OF 23