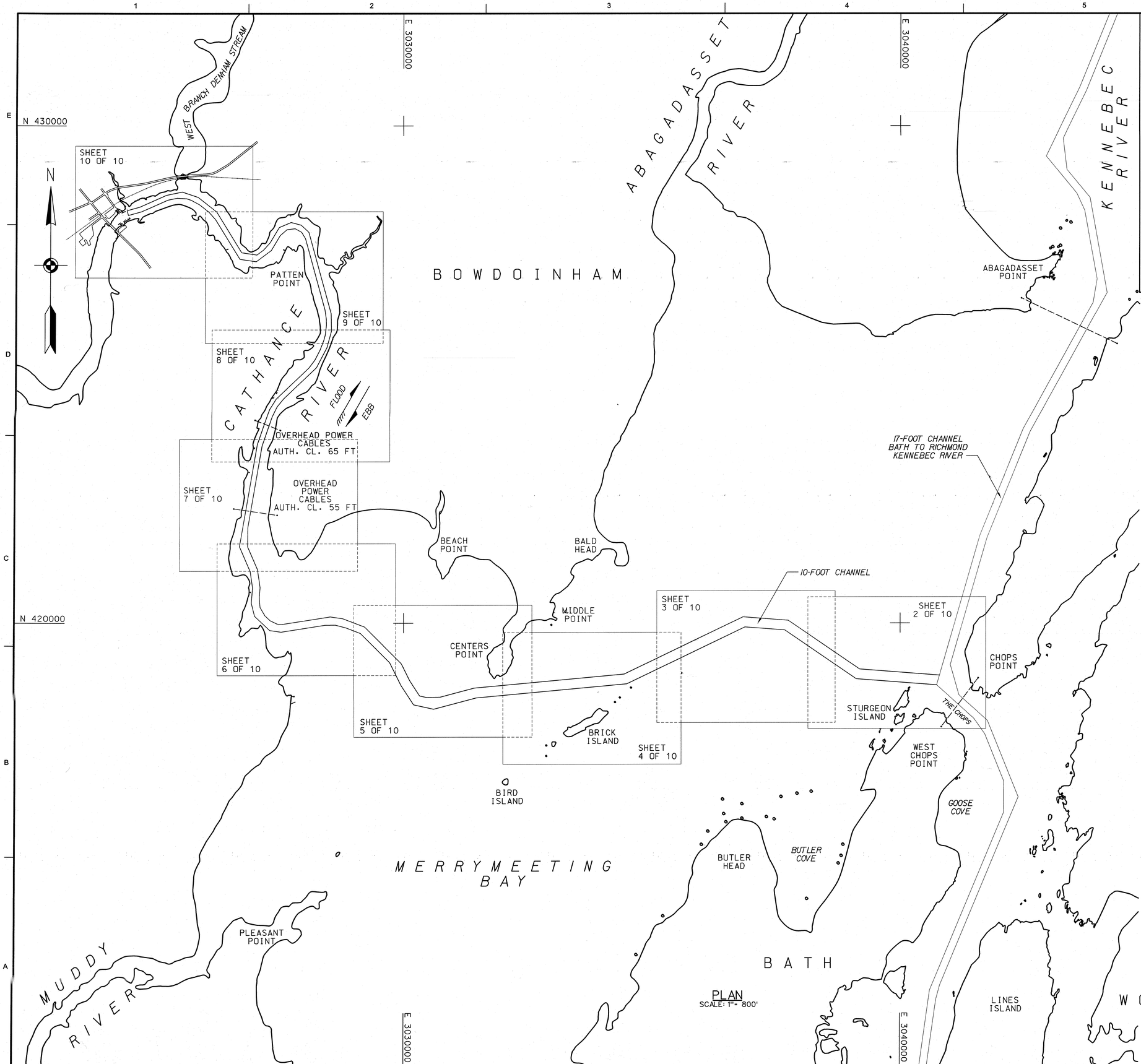
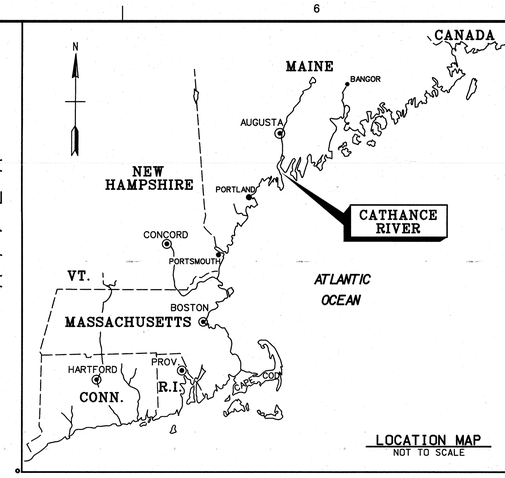


PLAN
SCALE: 1" = 800'



LOCATION MAP
NOT TO SCALE

US Army Corps of Engineers®
New England District

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-1	8/25/11	N 419352.93 E 3035395.46	43° - 59′ - 00.3″N 69° - 51′ - 09.6″W
RN-2	8/25/11	N 419689.50 E 3035420.45	43° - 59′ - 03.6″N 69° - 51′ - 09.3″W
GC-3	8/25/11	N 418425.96 E 3032427.88	43° - 58′ - 51.3″N 69° - 51′ - 50.3″W
RN-4	8/25/11	N 418504.99 E 3030601.78	43° - 58′ - 52.1″N 69° - 52′ - 15.2″W
GC-5	8/25/11	N 418850.40 E 3030094.32	43° - 58′ - 55.5″N 69° - 52′ - 22.2″W
RN-6	8/25/11	N 419813.47 E 3029286.90	43° - 59′ - 05.1″N 69° - 52′ - 33.2″W
GC-7	8/25/11	N 427813.70 E 3027368.60	44° - 00′ - 24.2″N 69° - 52′ - 59.0″W
RN-8	8/25/11	N 420048.22 E 3027314.93	43° - 59′ - 07.5″N 69° - 53′ - 00.1″W
HAZARD	8/25/11	N 427860.71 E 3027667.52	44° - 00′ - 24.6″N 69° - 52′ - 54.9″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.
2. Topography shown is from previous surveys and/or NOAA Chart Nos. 13293 and 13298_2. 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: The closest NOAA bench marks to the Cathance River are located along the Kennebec River at Hunnewell Point, Bath, Richmond, and Gardiner. The NAVD88 to MLLW corrections were established at these sites during recent surveys along the Kennebec River. A Hypack Kinematic Tidal Datum (KTD) file was created from these corrections. KTD file was then expanded to the west to cover the Cathance River. All tides were recorded using RTK GPS in conjunction with this KTD file. RTK base station was located at Station Temple (2010). No tide gauges were used on this job.
4. Coordinates shown are based on the Transverse Mercator Grid System for the State of Maine (West Zone 1802) and NAD 1983.
5. Survey was performed using a Reson 7125 multibeam echosounder system with a 400 kHz transducer. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 RTK GPS System.
6. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted from August thru September 2011.
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 5119
   10-foot depth contour shown thus:
   Surveyed by: Jeffrey W. Preston and crew
   Refer to Survey No.: 11-1162

SAFETY PAYS

GRAPHIC SCALE:
800 0 800 1600
1" - 800'

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

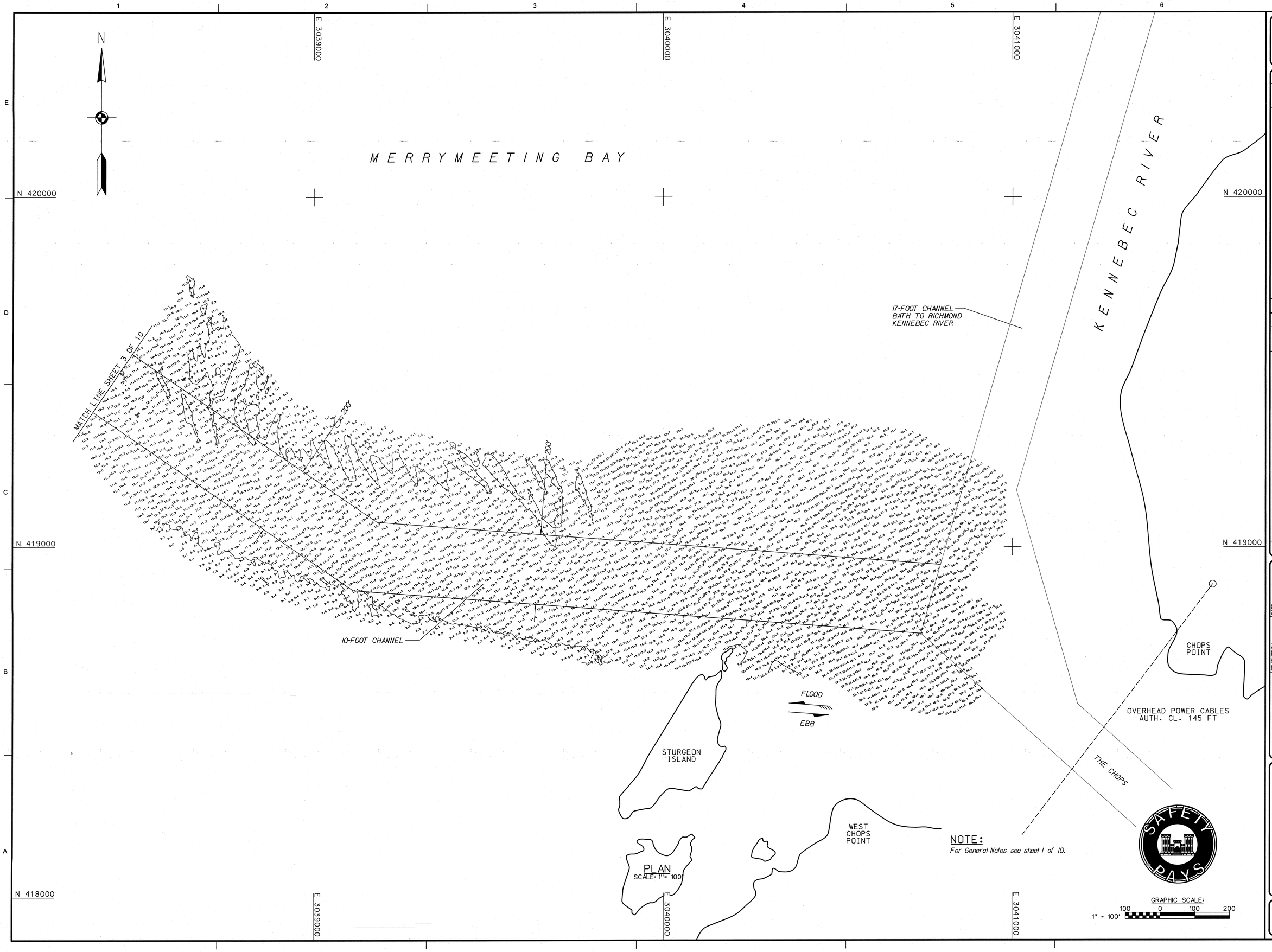
DATE: 1/16/13
DWN BY: RWK
CKD BY: ABB/TVGS
DESIGN FILE: CATHSPLD.DGN
DRAWING CODE: CAT-2713
REVIEWED BY: Asst. Chief Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 800'
PLOT DATE: 1/16/2013
SIZE: ANSI F
FILENAME: CAT2713V101.DGN

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

CATHANCE RIVER
BOWDOINHAM, MAINE
CONDITION SURVEY

10-FOOT CHANNEL

SHEET IDENTIFICATION
V-101
SHEET 1 OF 10



NOTE:
For General Notes see sheet 1 of 10.

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

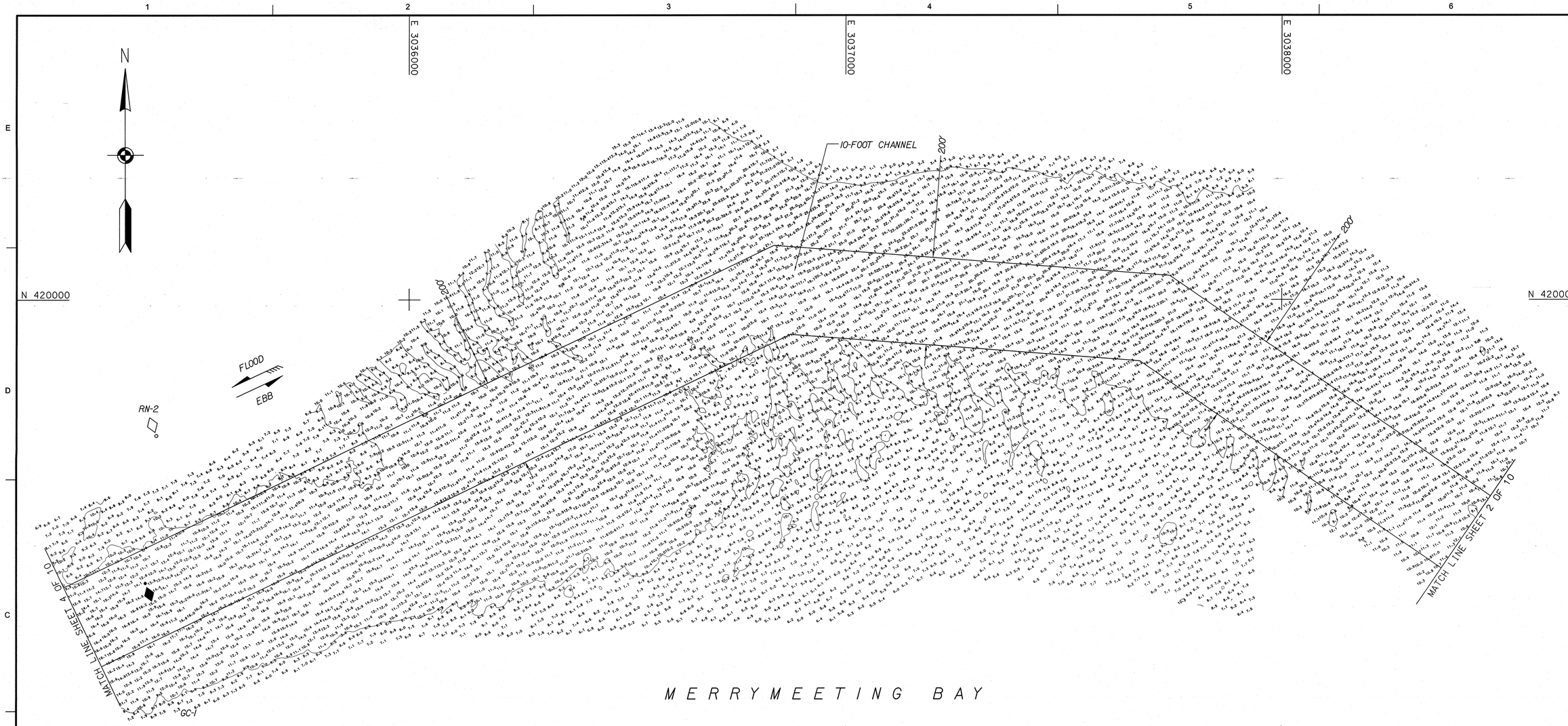
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Thomas J. Fredette, Jr. Add Chief, Survey Section
SUBMITTED BY: Stephen A. Tarolli Chief, Survey Section
DATE: 11/18/13
DWN BY: SWK
CKD BY: ABB / VJG
DESIGN FILE: CATRSPL1D08
PLOT SCALE: 1" = 100'
PLOT DATE: 11/18/2013
DRAWING CODE: CAT-2713
REF FILES: ABB.F
R-E-NAME: CAT2713V102.S02

CATHANCE RIVER
BOWDOINHAM, MAINE
CONDITION SURVEY

10-FOOT CHANNEL

SHEET IDENTIFICATION
V-102
SHEET 2 OF 10



PLAN
SCALE: 1" = 100'

NOTE:
For General Notes see sheet 1 of 10.

SAFETY PAYS

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

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

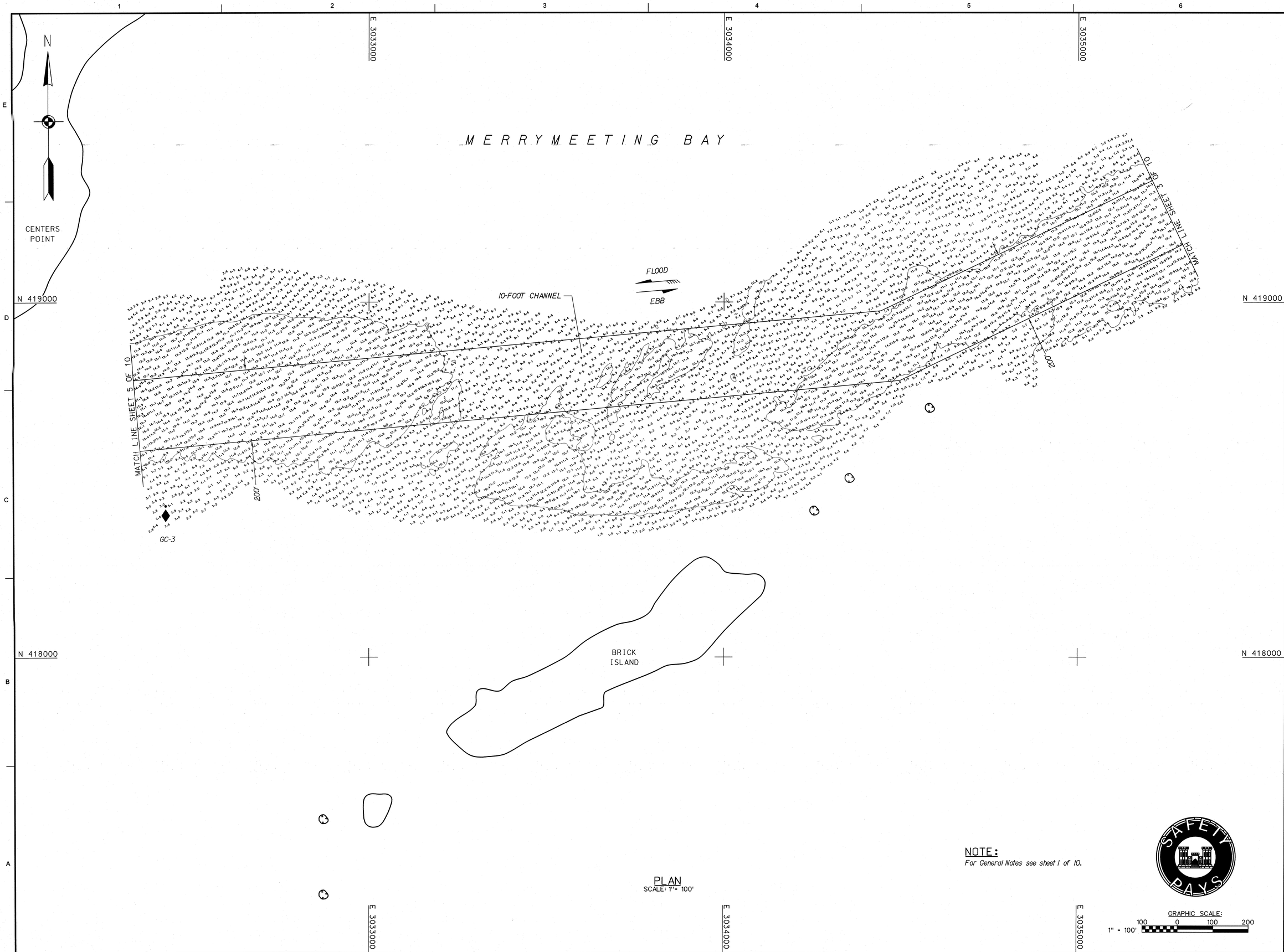
U.S. ARMY CORPS OF ENGINEERS
696 VIRGINIA ROAD
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 1/1/2013
DWN BY: SWK
CKD BY: AEB / VJG
DGN FILE: CATHSR13.DGN
PLOT SCALE: 1" = 100'
PLOT DATE: 1/10/2013
DRAWING CODE: CAT-2713
SIZE: ANSI F
FILE NAME: CAT2713V103.S03

CATHANCE RIVER
BOWDOINHAM, MAINE
CONDITION SURVEY

10-FOOT CHANNEL

SHEET IDENTIFICATION
V-103
SHEET 3 OF 10



NOTE:
For General Notes see sheet 1 of 10.

PLAN
SCALE: 1"= 100'

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

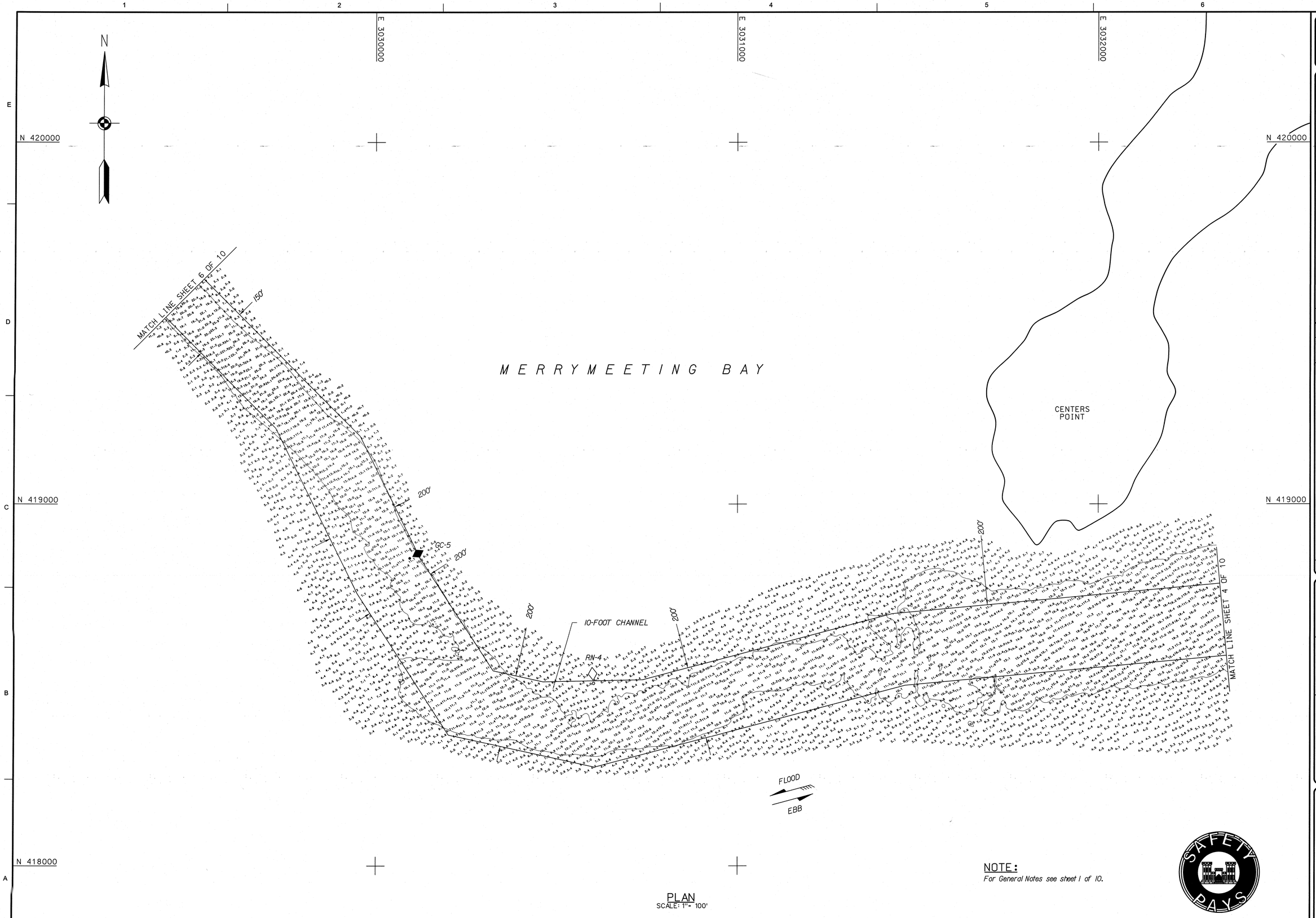
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 11/8/13
DWN BY: SWK
CKD BY: ASB / VJG
DESIGN FILE: CATHDER.DGN
PLOT SCALE: 1" = 100'
PLOT DATE: 11/20/2013
DGN FILE: FILTMAN.DGN
DRAWING CODE: CAT-2713
CITY: ANSI F
CAT27197154-S04

CATHANCE RIVER
BOWDOINHAM, MAINE
CONDITION SURVEY

10-FOOT CHANNEL

SHEET IDENTIFICATION
V-104
SHEET 4 OF 10



PLAN
SCALE: 1"= 100'

NOTE:
For General Notes see sheet 1 of 10.

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

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

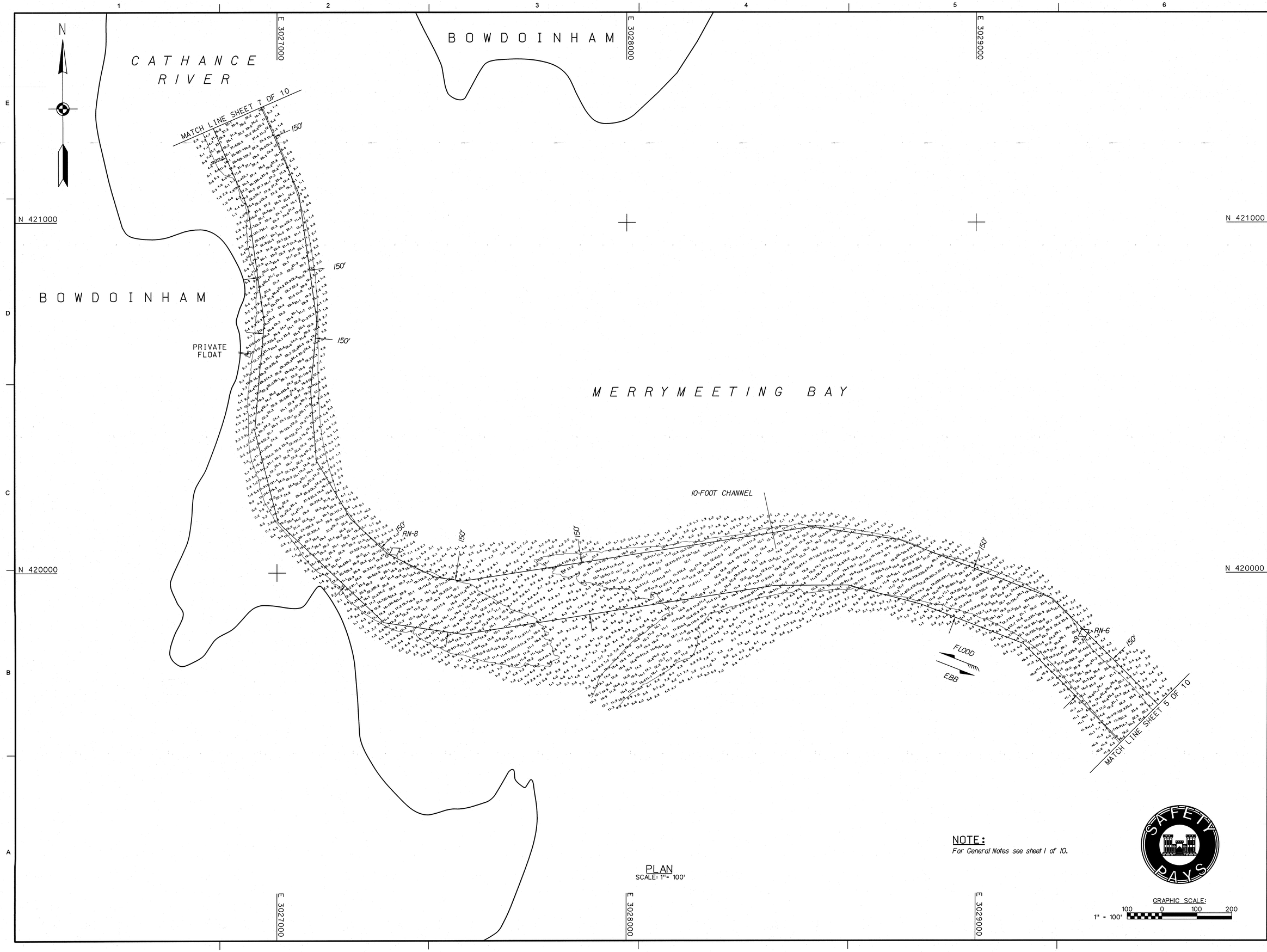
DATE: 1/16/13
DWN BY: DWK
CKD BY: AEB / VJG
DESIGN FILE: CATHSP10DSN
DRAWING CODE: CAT1213
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 1/16/2013
SIZE: ANSI E
FILE NAME: CAT0213V105.dgn

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

CATHANCE RIVER
BOWDOINHAM, MAINE
CONDITION SURVEY

10-FOOT CHANNEL

SHEET IDENTIFICATION
V-105
SHEET 5 OF 10



PLAN
SCALE: 1"= 100'

NOTE:
For General Notes see sheet 1 of 10.

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

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

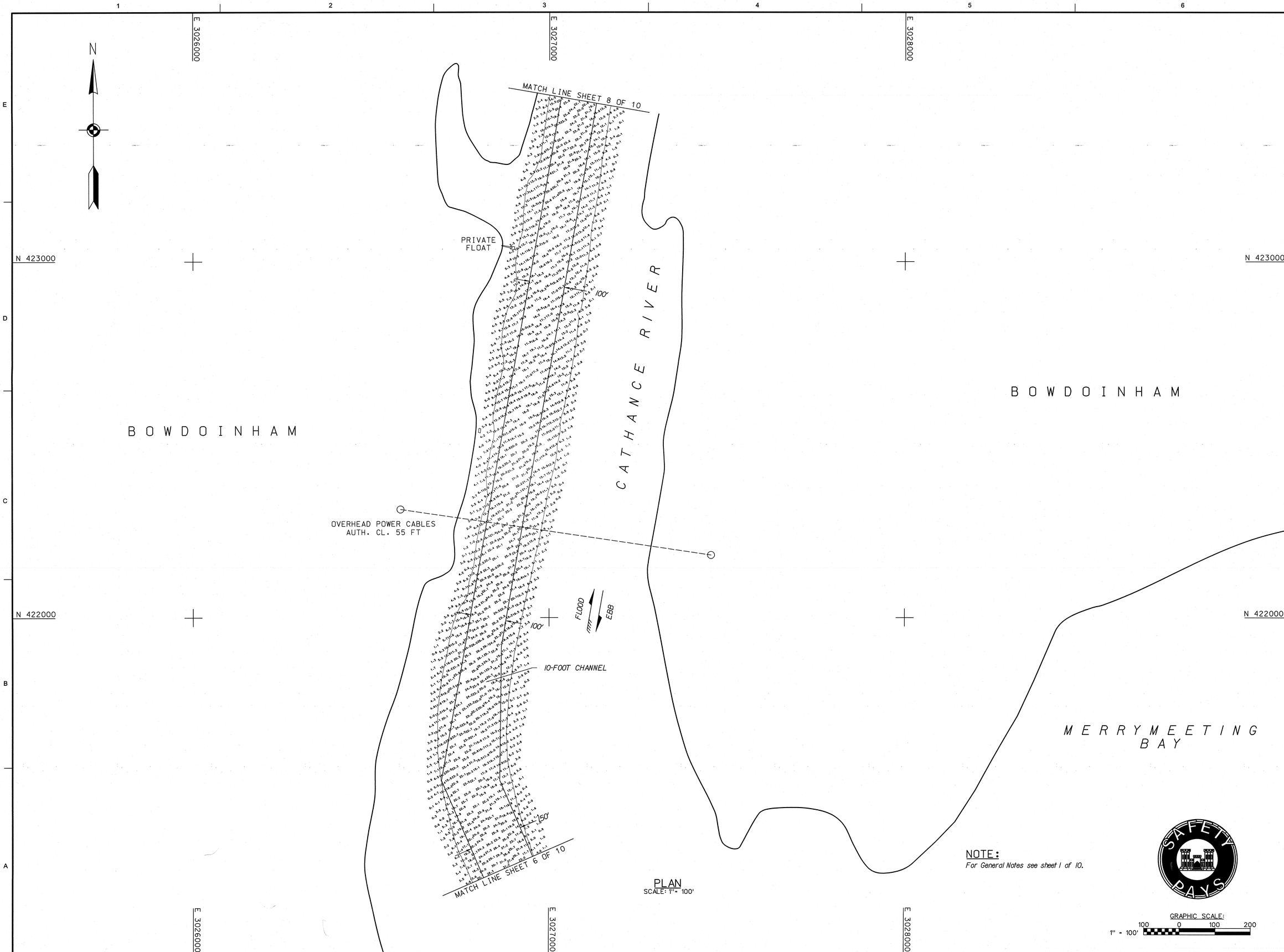
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Thomas J. Kelly, Jr. Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 100'
PLOT DATE: 1/16/2013
DATE: 1/16/2013
DWN BY: SWK
CKD BY: AEB/ JVG
FIELD BK: CR-RIPS-DOR
DRAWING CODE: CAT-2713
FILE NAME: CAT2713V106.506
ABS F

CATHANCE RIVER
BOWDOINHAM, MAINE
CONDITION SURVEY

10-FOOT CHANNEL

SHEET IDENTIFICATION
V-106
SHEET 6 OF 10



PLAN
SCALE: 1"= 100'

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

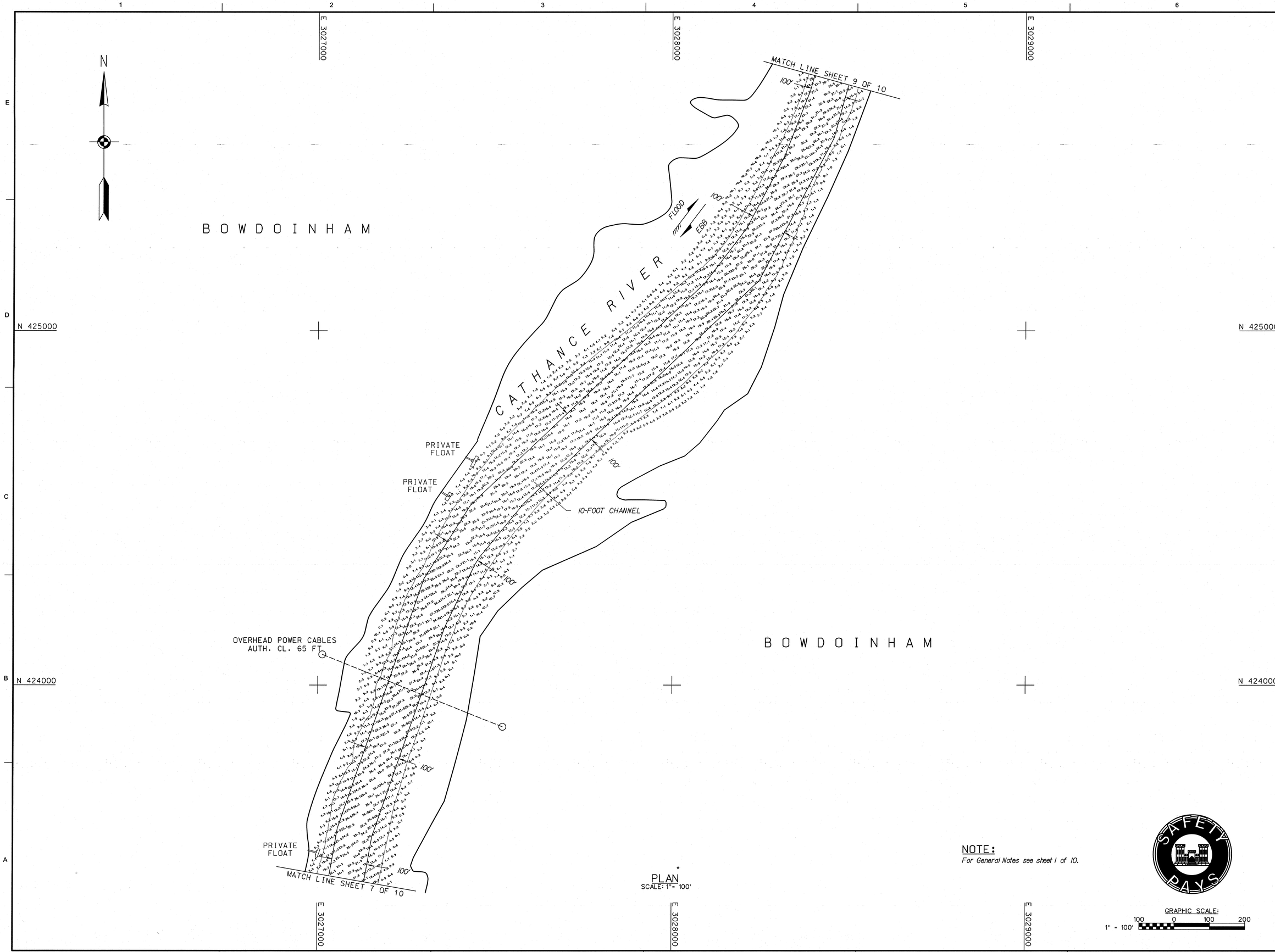
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 1/6/13
DWN BY: ABR
CKD BY: ABR
DESIGN FILE: CATHSR.DGN
PLOT SCALE: 1" = 100'
PLOT DATE: 1/7/2013
DRAWING CODE: CAT-2713
SIZE: ANSI F
FILE NAME: CAT2713V107.S07

CATHANCE RIVER
BOWDOINHAM, MAINE
CONDITION SURVEY

10-FOOT CHANNEL

SHEET IDENTIFICATION
V-107
SHEET 7 OF 10



PLAN
SCALE: 1" = 100'

NOTE:
For General Notes see sheet 1 of 10.

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

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

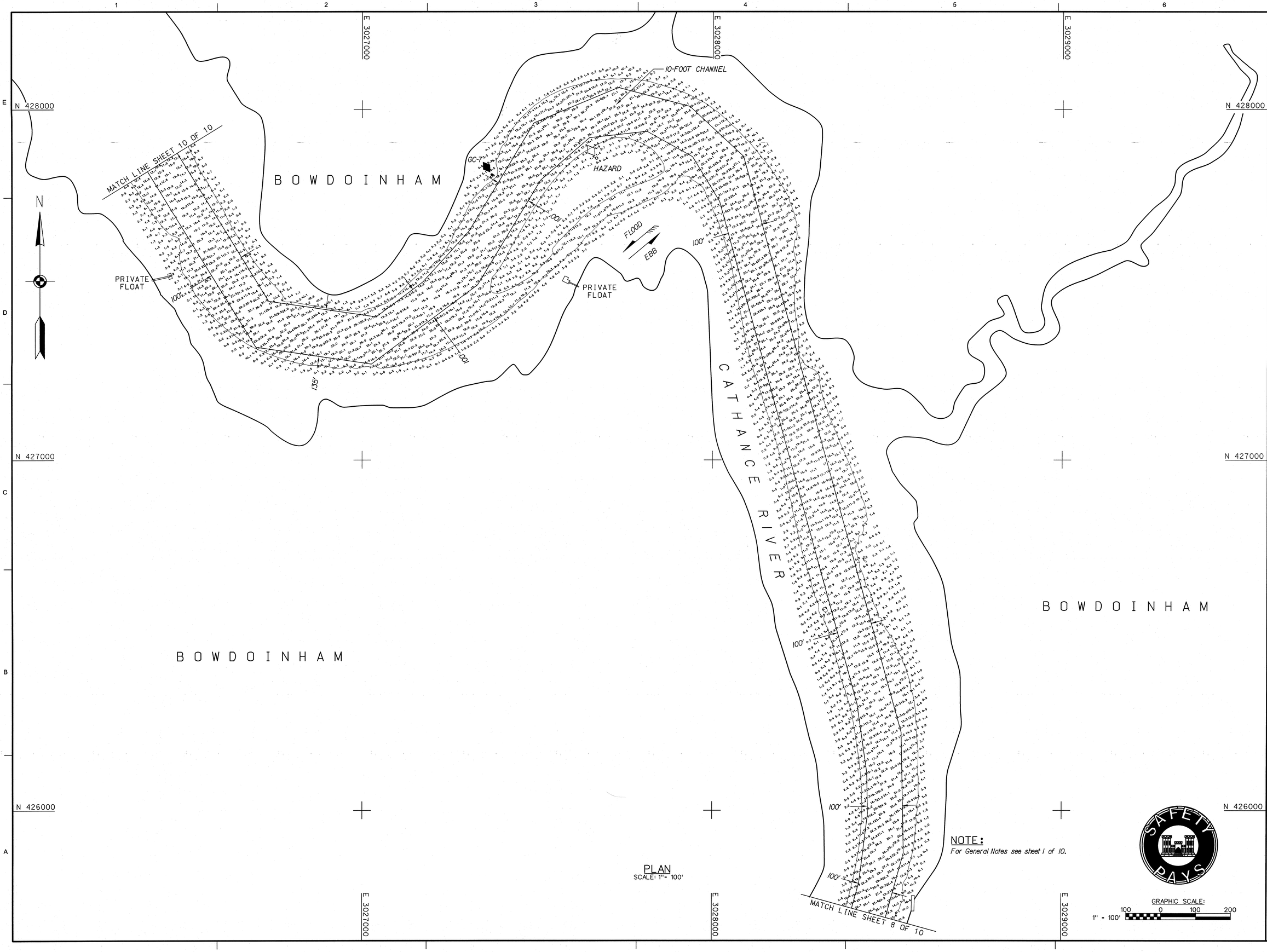
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 1/18/19
DWN BY: SWK
CKD BY: ABB / VJG
DESIGN FILE: CATHSPS.DGN
PLOT SCALE: 1" = 100'
PLOT DATE: 1/10/2013
DRAWING CODE: CAT-2713
SIZE: ANSI F
FILE NAME: CAT2713V108.S09

CATHANCE RIVER
BOWDOINHAM, MAINE
CONDITION SURVEY

10-FOOT CHANNEL

SHEET IDENTIFICATION
V-108
SHEET 8 OF 10



PLAN
SCALE: 1" = 100'

NOTE:
For General Notes see sheet 1 of 10.

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

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

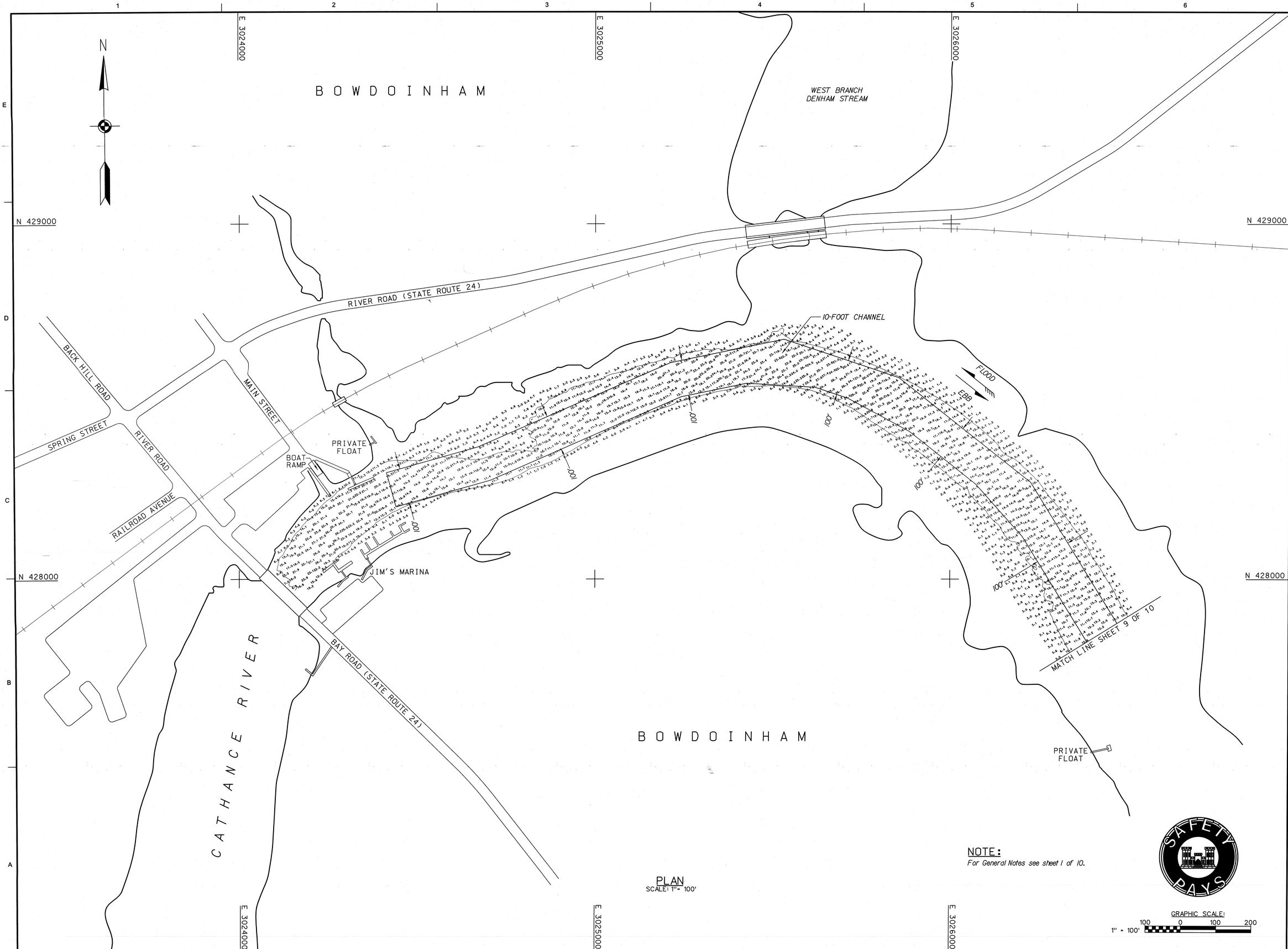
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 11.8.13
DWN BY: DWK
CKD BY: ABB / VJG
DESIGN FILE: CATHSPLDGN
PLOT SCALE: 1" = 100'
PLOT DATE: 11/12/13
DRAWING CODE: CAT-2713
SIZE: ANSI F
FILE NAME: CAT2713V109.S69

CATHANCE RIVER
BOWDOINHAM, MAINE
CONDITION SURVEY

10-FOOT CHANNEL

SHEET IDENTIFICATION
V-109
SHEET 9 OF 10



PLAN
SCALE: 1" = 100'

NOTE:
For General Notes see sheet 1 of 10.

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

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: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 1 | 8 | 13
DWN BY: SWK
CKD BY: ABB/ TVG
ISSUED FOR: CATHSFLDCN
PLOT SCALE: 1"=100'
PLOT DATE: 1/18/2013
DRAWING CODE: CAT-2713
SIZE: ANSI F
FILE NAME: CAT2713V110.S10

CATHANCE RIVER
BOWDOINHAM, MAINE
CONDITION SURVEY

10-FOOT CHANNEL

SHEET IDENTIFICATION
V-110
SHEET 10 OF 10