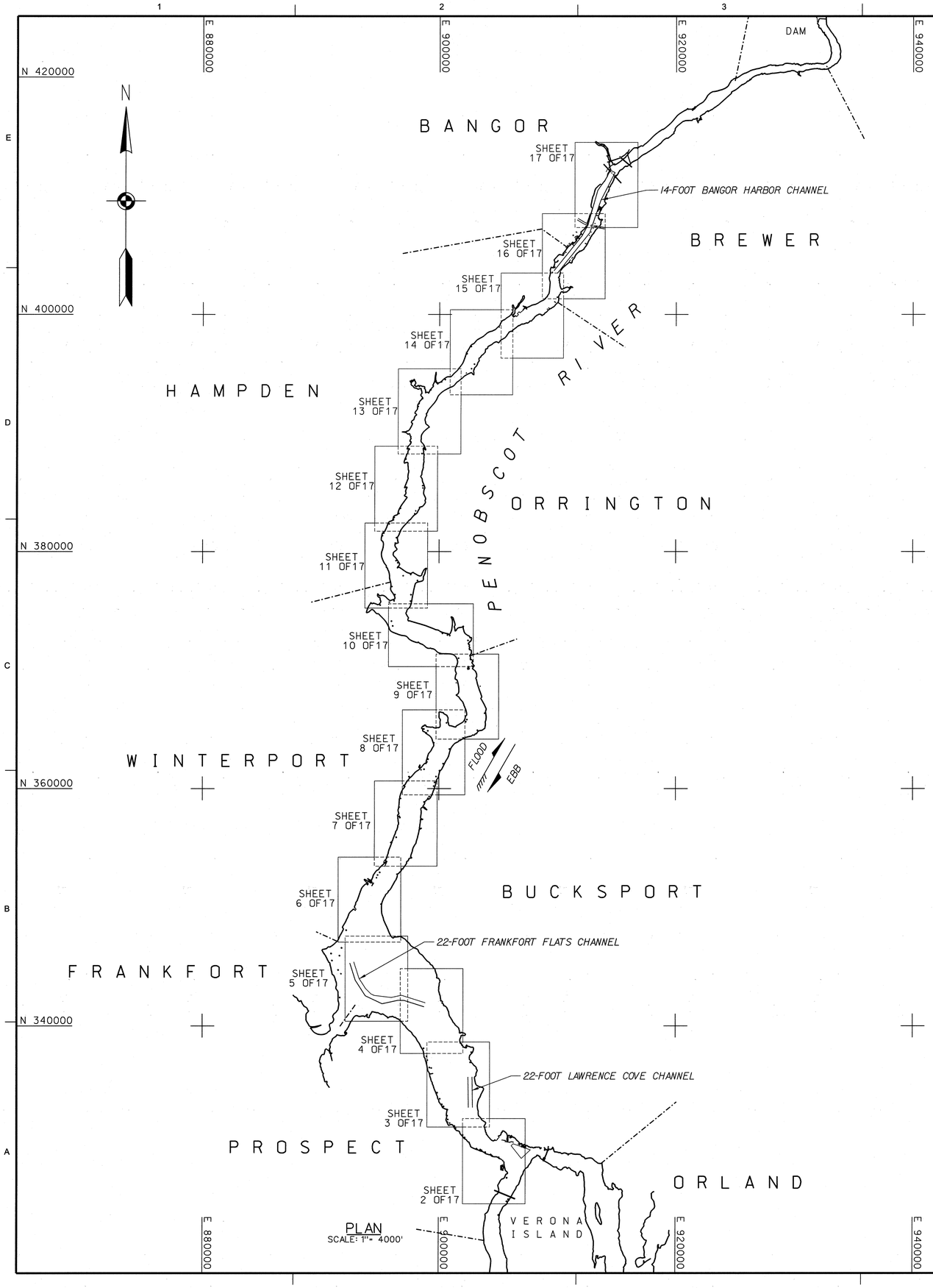
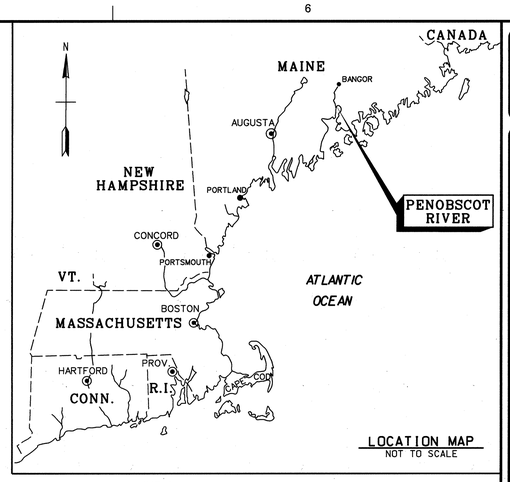


PLAN
SCALE: 1" = 4000'

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-7	09/23/08	N 333482.67 E 902156.61	44° - 34′ - 52.0″N 68° - 48′ - 54.3″W
GC-9	09/23/08	N 336100.23 E 902080.59	44° - 35′ - 17.8″N 68° - 48′ - 55.5″W
GC-11	09/25/08	N 340712.52 E 899632.30	44° - 36′ - 03.3″N 68° - 49′ - 29.6″W
GC-13	09/25/08	N 341872.49 E 896836.22	44° - 36′ - 14.6″N 68° - 50′ - 08.3″W
Fl R-14	09/25/08	N 342687.41 E 894679.71	44° - 36′ - 22.6″N 68° - 50′ - 38.2″W
RN-16	09/25/08	N 344965.05 E 893092.80	44° - 36′ - 45.0″N 68° - 51′ - 00.3″W
RN-18	09/25/08	N 347620.15 E 893100.02	44° - 37′ - 11.2″N 68° - 51′ - 00.3″W
GC-19	11/04/08	N 365349.84 E 902458.36	44° - 40′ - 06.7″N 68° - 48′ - 51.9″W
RN-22	11/06/08	N 373212.21 E 897980.66	44° - 41′ - 24.2″N 68° - 49′ - 54.3″W
RN-24	08/18/09	N 387098.82 E 897976.65	44° - 43′ - 41.3″N 68° - 49′ - 55.1″W
RN-26	08/20/09	N 395347.61 E 902218.92	44° - 45′ - 02.9″N 68° - 48′ - 56.8″W
RN-28	08/20/09	N 396734.56 E 903051.40	44° - 45′ - 16.6″N 68° - 48′ - 45.3″W



LOCATION MAP
NOT TO SCALE

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. 13309. 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 for Sheets 2 thru 4: TBM Buck (2008) is a 1/4 inch drill hole on a concrete pad that secures the Bucksport Marina float system. The marina is located off of Main Street (Route 15) in downtown Bucksport. Elevation is 13.63 feet above MLLW.
4. Bench Mark Data for Sheets 4 thru 8: BM No. 1 (1970) is a primary NOS disk set flush in the granite foundation of an old well, 59.0 feet (18.0 m), north of the center of the intersection of Commercial Street and a paved road north, and 30.5 feet (9.3 m), west of the Power Light Pole No. 575. Elevation is 22.41 feet above MLLW.
5. Bench Mark Data for Sheets 8 thru 11: TBM Lost (2008) is a 2 inch brass disk on a high point of a prominent piece of ledge which is on the east side of the river. This point is 7.2 miles south on Route 15 from its intersection with Route 395. Take Blake Road to Mill Creek Road to Bald Hill Reach Road, follow to fork and bear right on dirt road and follow to the end. The point is located south of a house at the end of the road on a large piece of ledge called Bald Hill Reach. Elevation is 14.90 feet above MLLW.
6. Bench Mark Data for Sheets 11 thru 14: TBM Canoe (2008) is a mag nail in the 138th plank of a wood pier on the west side of the river on the property of 61/64 Canoe Club Road located off of Route One, directly across from the intersection of Route 9W in Hampden, Maine; access is by boat and vehicle and the bank is a steep decline to the pier. Elevation is 18.94 feet above MLLW.
7. Bench Mark Data for Sheets 14 thru 17: Sta. Park (2008) is a mag nail in the asphalt apron adjacent to a brick path at Bangor Landing on the waterfront, on the west side of the river closest to the northeast end of the landing, south of May Street. From Route 1A take Railroad Street to Front Street; point is between Railroad Street and May Street. Elevation is 18.32 feet above MLLW.
8. Coordinates shown are based on the Transverse Mercator Grid System for the State of Maine (East Zone 1801) and NAD 1983.
9. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning was obtained utilizing a Leica 1200 GPS System. RTK base stations TBM Buck (2008), BM No. 1 (1970), TBM Lost (2008), TBM Canoe (2008) and Sta. Park (2008) were used for this survey.
10. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted from September 2008 thru September 2009.
11. 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.
12. 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.
13. Field Books: R&H 2167 and 4001

14-foot depth contour shown thus:
15-foot depth contour shown thus:
(Natural deep area from Winterport to Brewer)
22-foot depth contour shown thus:
Depthsounder Rolls: 09-972/01-16
Surveyed by: Robert MacGovern and Crew

SAFETY PAYS

GRAPHIC SCALE:
1" = 4000'
4000 0 4000 8000

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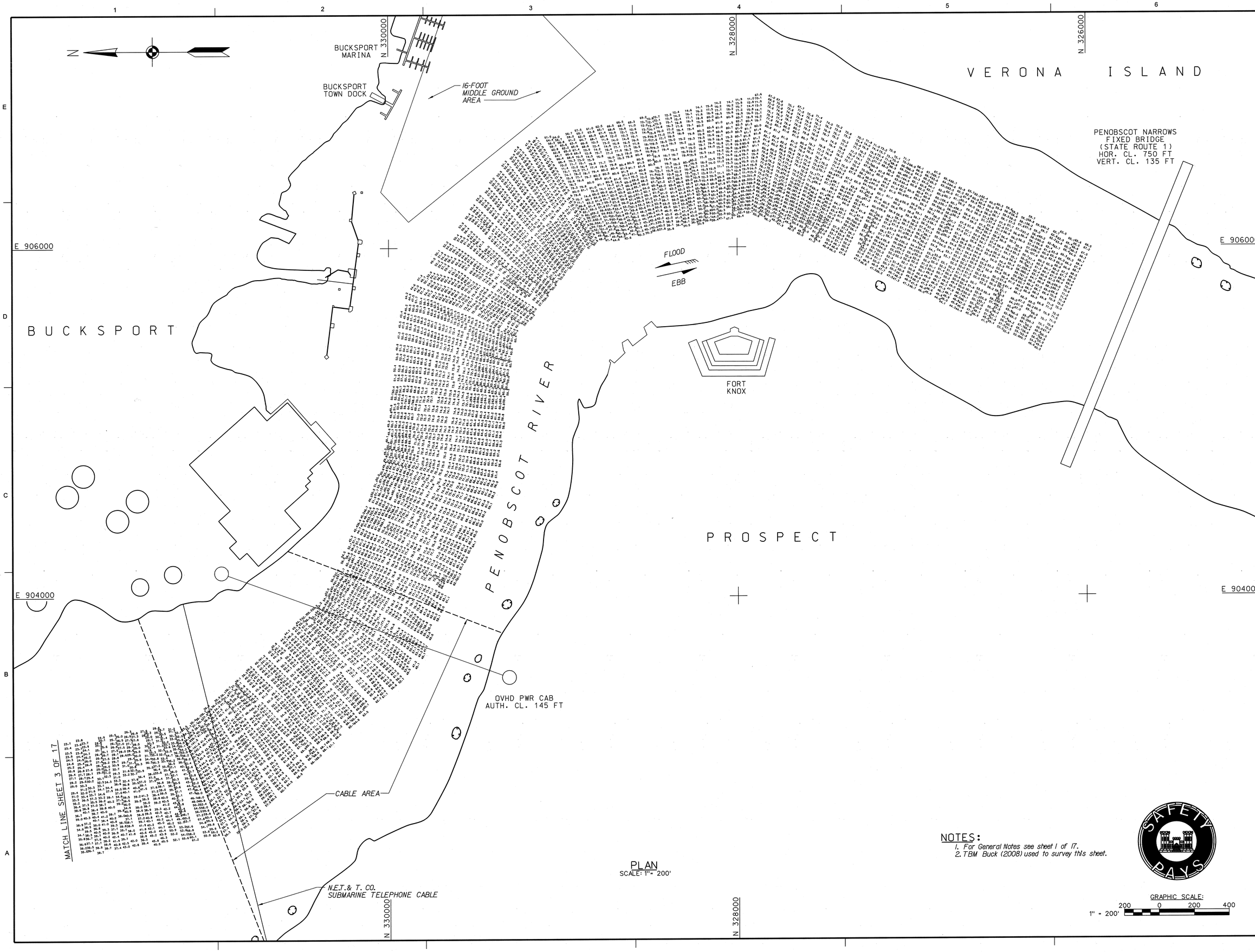
REVIEWED BY: Asst. Chief Survey Section
SUPERVISED BY: Chief, Survey Section
DATE: 12/14/10
DWN BY: MARC
CKD BY: BRIAN WM
DESIGN FILE: PENHSPLDGN
PLOT SCALE: 1" = 4000'
PLOT DATE: 12/14/2010
DRAWING CODE: 2008
SIZE: ANSI F
FILE NAME: PEN2009V101.DGN

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-101
SHEET 1 OF 17



PLAN
SCALE: 1"= 200'

NOTES:
1. For General Notes see sheet 1 of 17.
2. TBM Buck (2008) used to survey this sheet.

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

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MARK	DESCRIPTION	DATE	APPR

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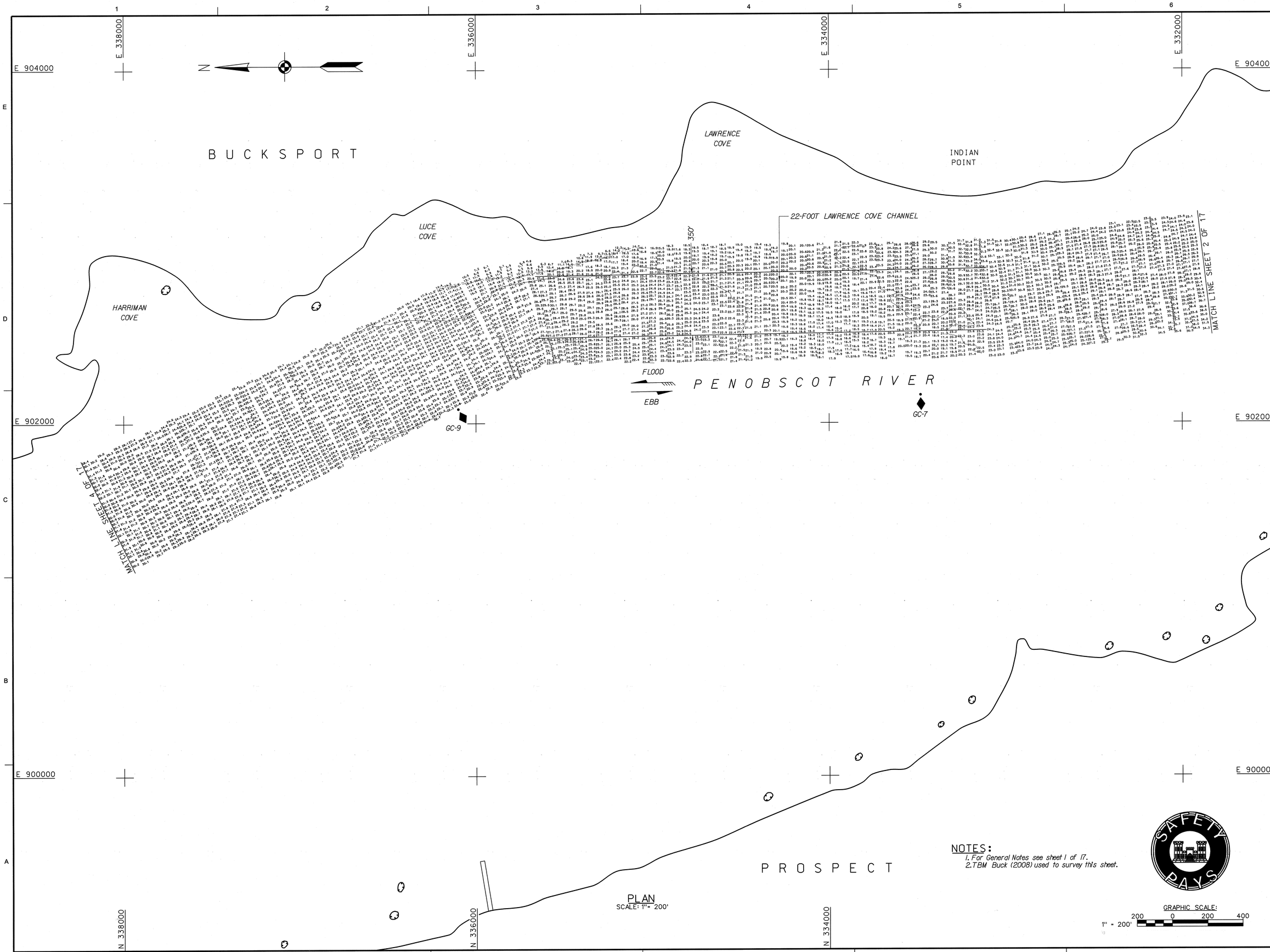
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/14/10
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: PENHSP3.DGN
DRAWING CODE: 2668
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
FILE NAME: PEN2668V102.S02
SIZE: ANSI F

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-102
SHEET 2 OF 17



PLAN
SCALE: 1" = 200'

NOTES:
1. For General Notes see sheet 1 of 17.
2. TBM Buck (2008) used to survey this sheet.

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

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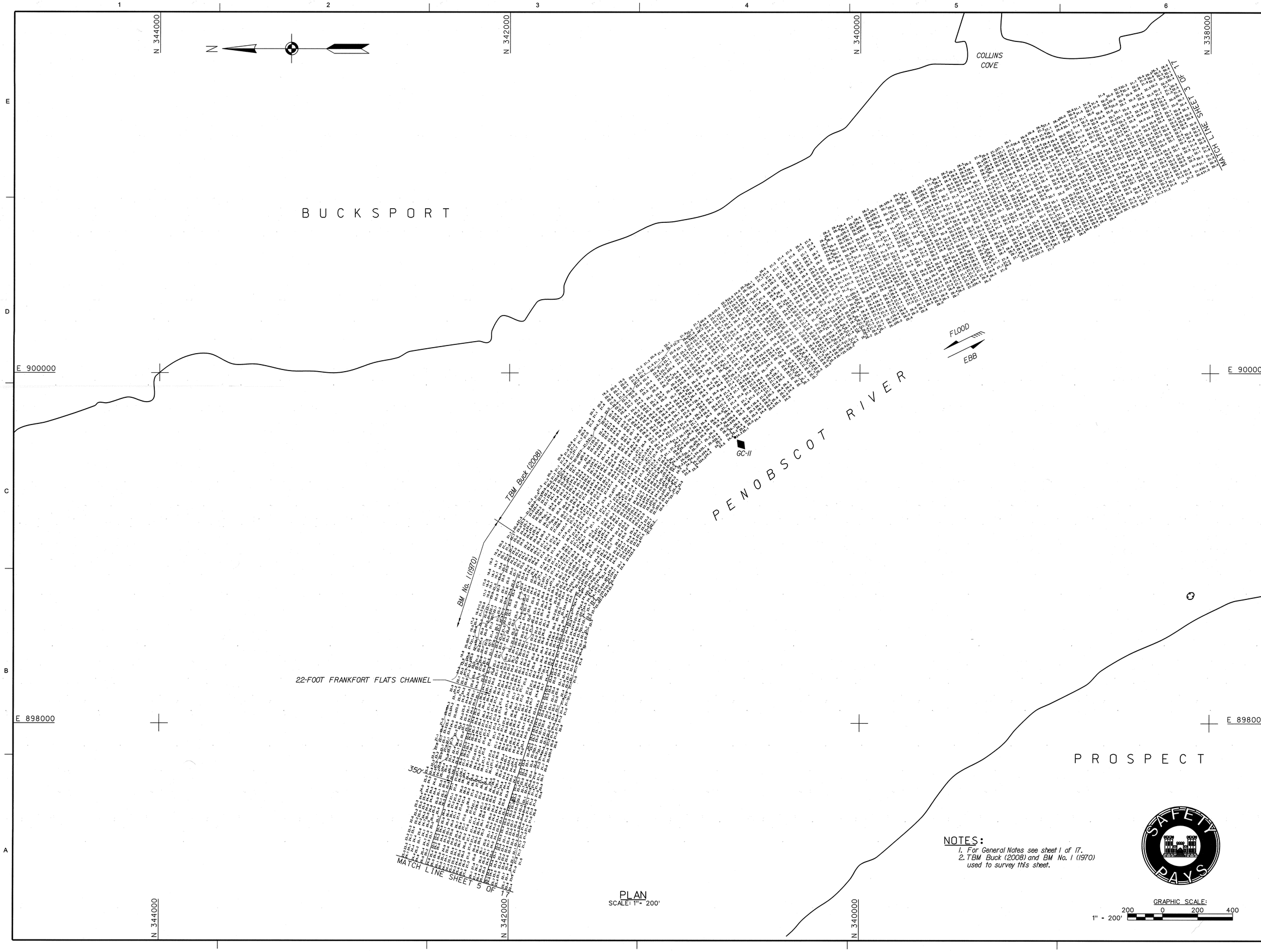
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
SIZE: ANSI F
FILE NAME: PENZ068V103.S03
DATE: 12/14/10
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: PENHSP3.DGN
DRAWING CODE: 2668

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-103
SHEET 3 OF 17



PLAN
SCALE: 1" = 200'

NOTES:
1. For General Notes see sheet 1 of 17.
2. TBM Buck (2008) and BM No. 1 (1970) used to survey this sheet.

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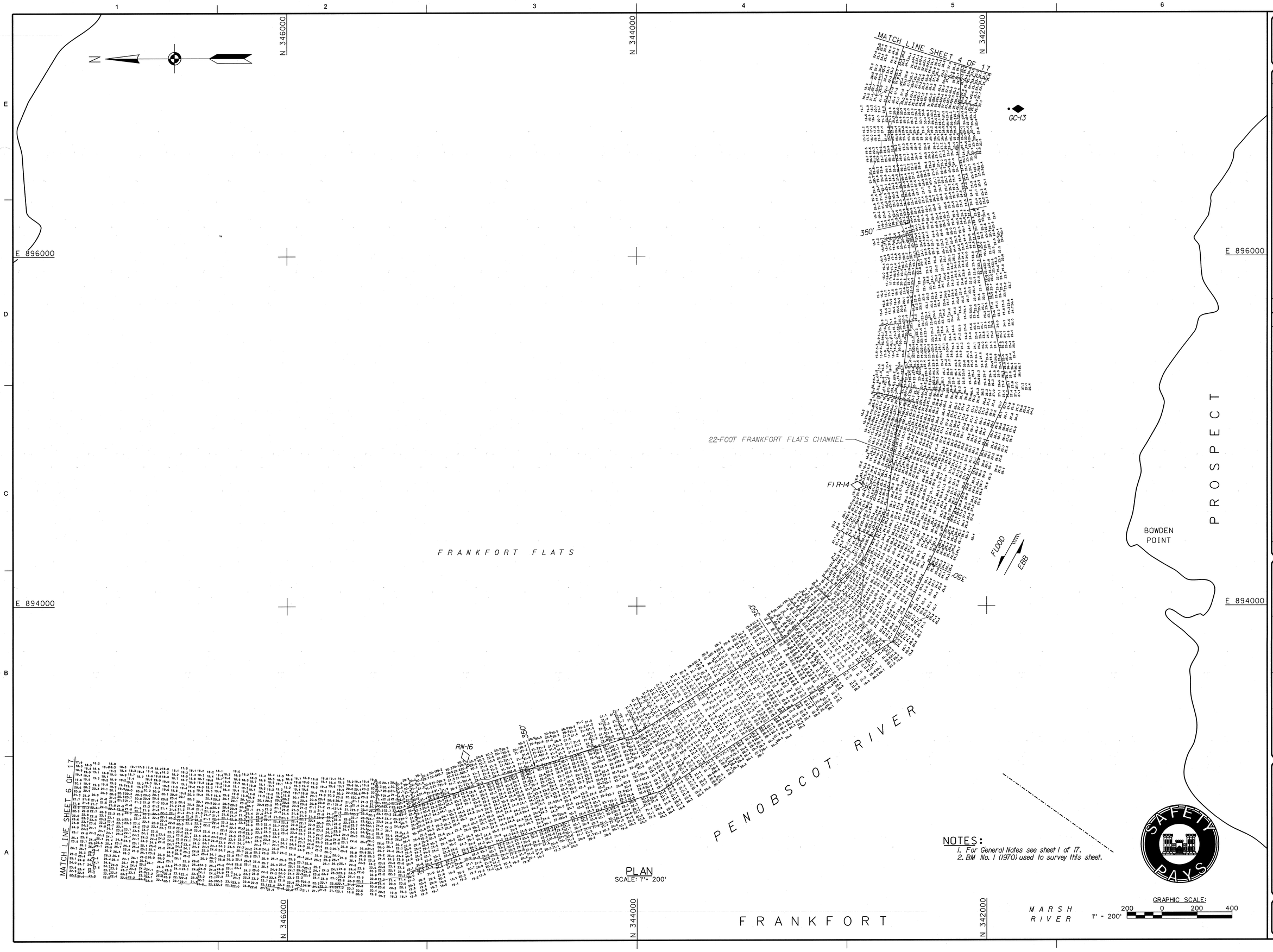
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/14/10
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: PENNSP3.DGN
DRAWING CODE: 2668
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
SIZE: ANSI F
FILE NAME: PEN2668V104.S04

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-104
SHEET 4 OF 17



PLAN
SCALE: 1" = 200'

NOTES:
1. For General Notes see sheet 1 of 17.
2. BM No. 1 (1970) used to survey this sheet.

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

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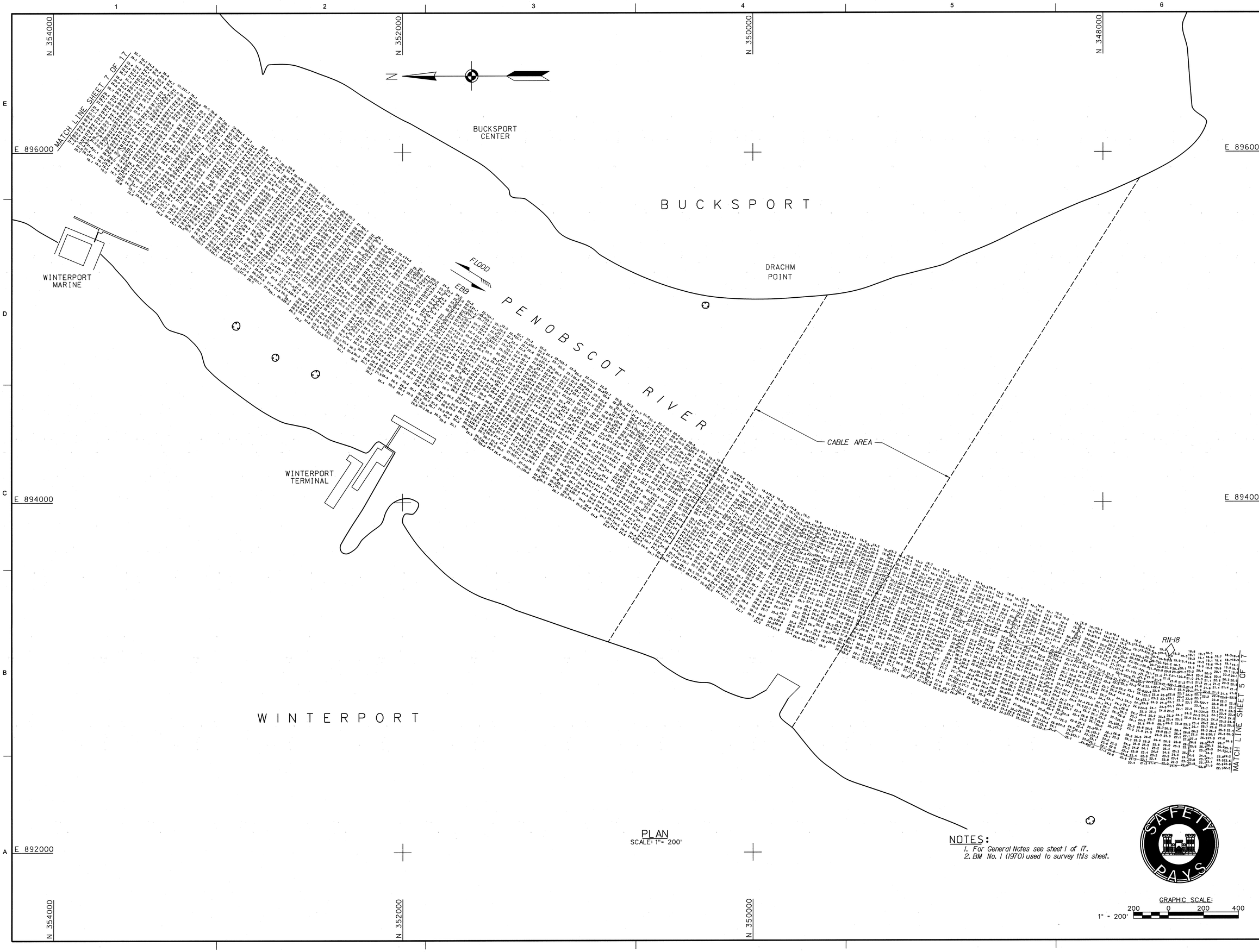
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
SIZE: ANSI F
FILE NAME: PEN2668V105.S05
DATE: 12/14/10
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: PENHSP3.DGN
DRAWING CODE: 2668

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-105
SHEET 5 OF 17



PLAN
SCALE: 1" = 200'

NOTES:
1. For General Notes see sheet 1 of 17.
2. BM No. 1 (1970) used to survey this sheet.

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

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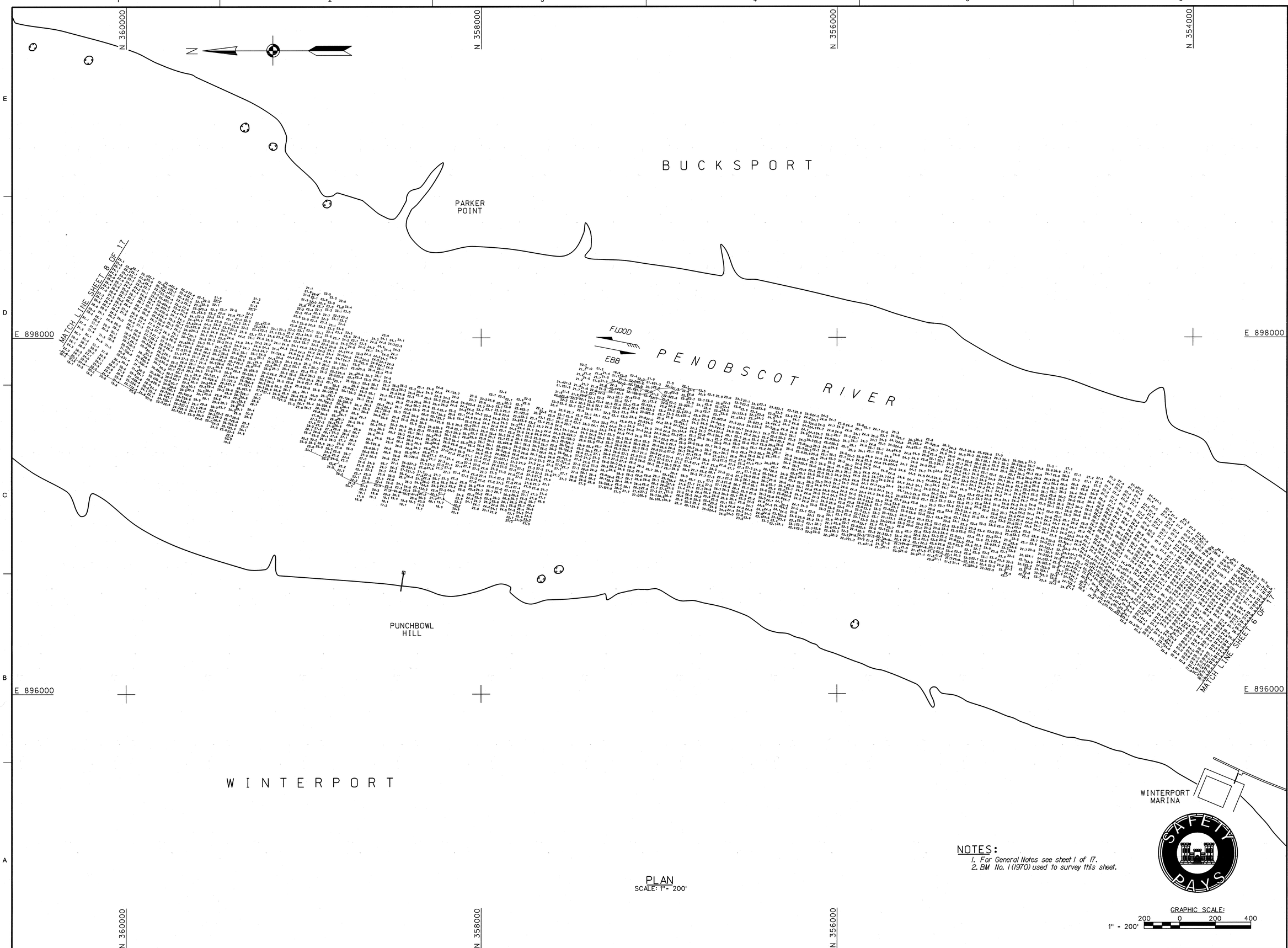
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/14/10
DWN BY: SWS
CKD BY: MTM
DESIGN FILE: PENNSP3.DGN
DRAWING CODE: 2668
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
SIZE: ANSI F
FILE NAME: PEN2668V106.S06

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-106
SHEET 6 OF 17



PLAN
SCALE: 1" = 200'

NOTES:
1. For General Notes see sheet 1 of 17.
2. BM No. 1 (1970) used to survey this sheet.

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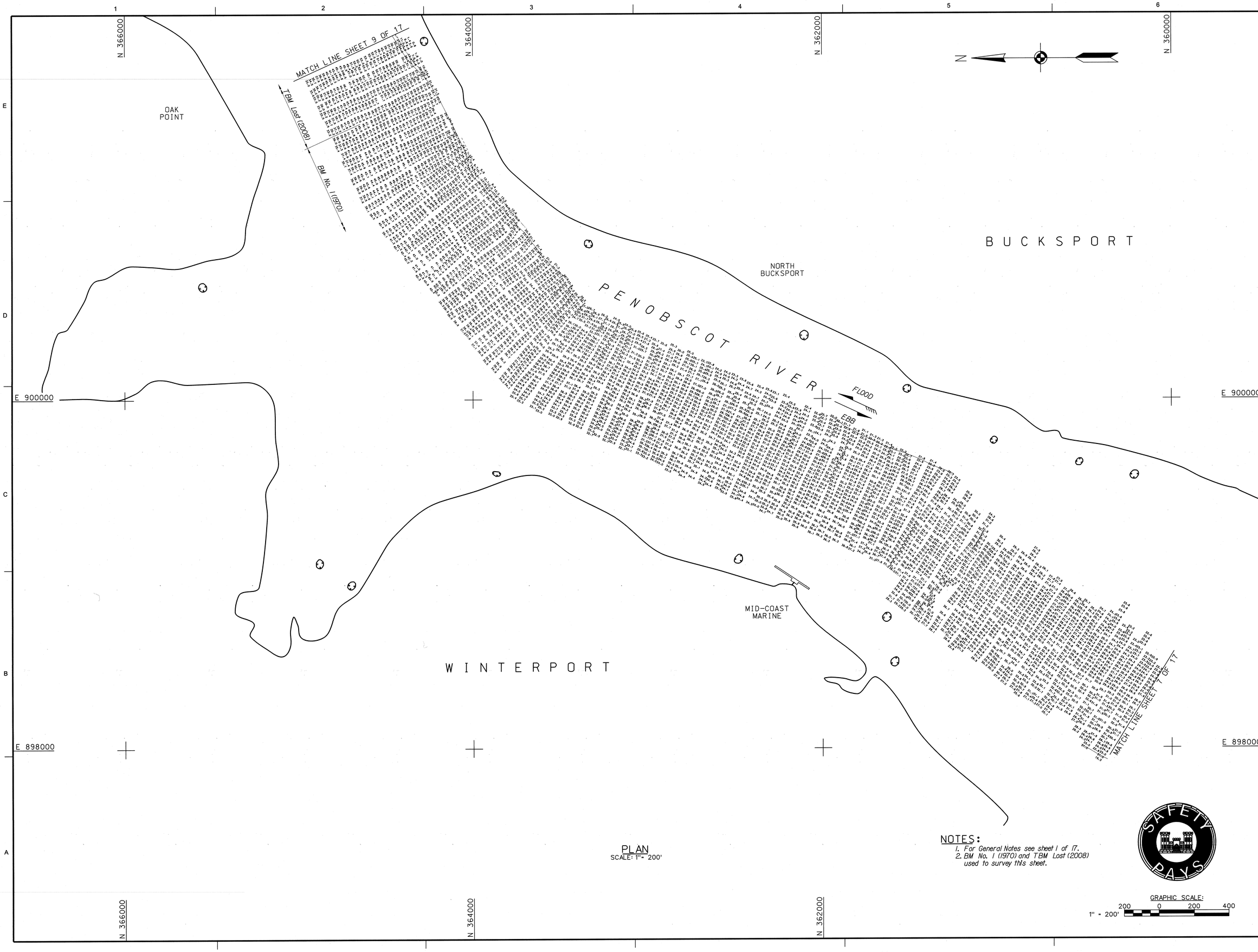
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/14/10
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: PENHSP3.DGN
DRAWING CODE: 2668
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
SIZE: ANSI F
FILE NAME: PEN2668V107.S07

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-107
SHEET 7 OF 17



PLAN
SCALE: 1"= 200'

NOTES:
1. For General Notes see sheet 1 of 17.
2. BM No. 1 (1970) and TBM Lost (2008) used to survey this sheet.

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

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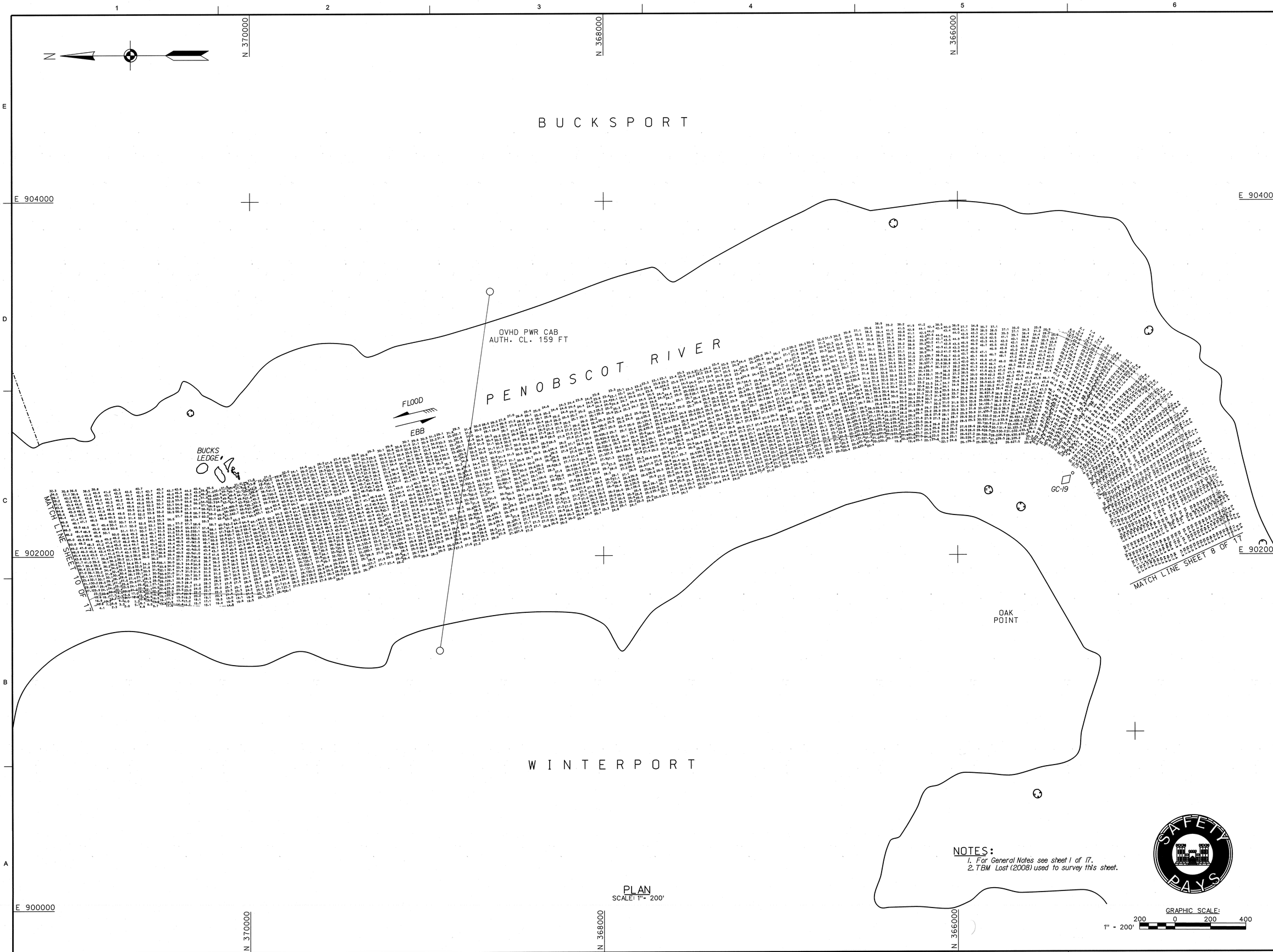
REVIEWED BY: Mark Tremblay, Asst. Chief, Survey Section
DATE: 12/14/10
DWN BY: SWK
CKD BY: MTM
SUBMITTED BY: Mark Tremblay, Chief, Survey Section
DESIGN FILE: PENHSP3.DGN
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
DRAWING CODE: 2868
SIZE: ANSI F
FILE NAME: PEN2868V108.S08

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-108
SHEET 8 OF 17



PLAN
SCALE: 1"= 200'

NOTES:
1. For General Notes see sheet 1 of 17.
2. TBM Lost (2008) used to survey this sheet.

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

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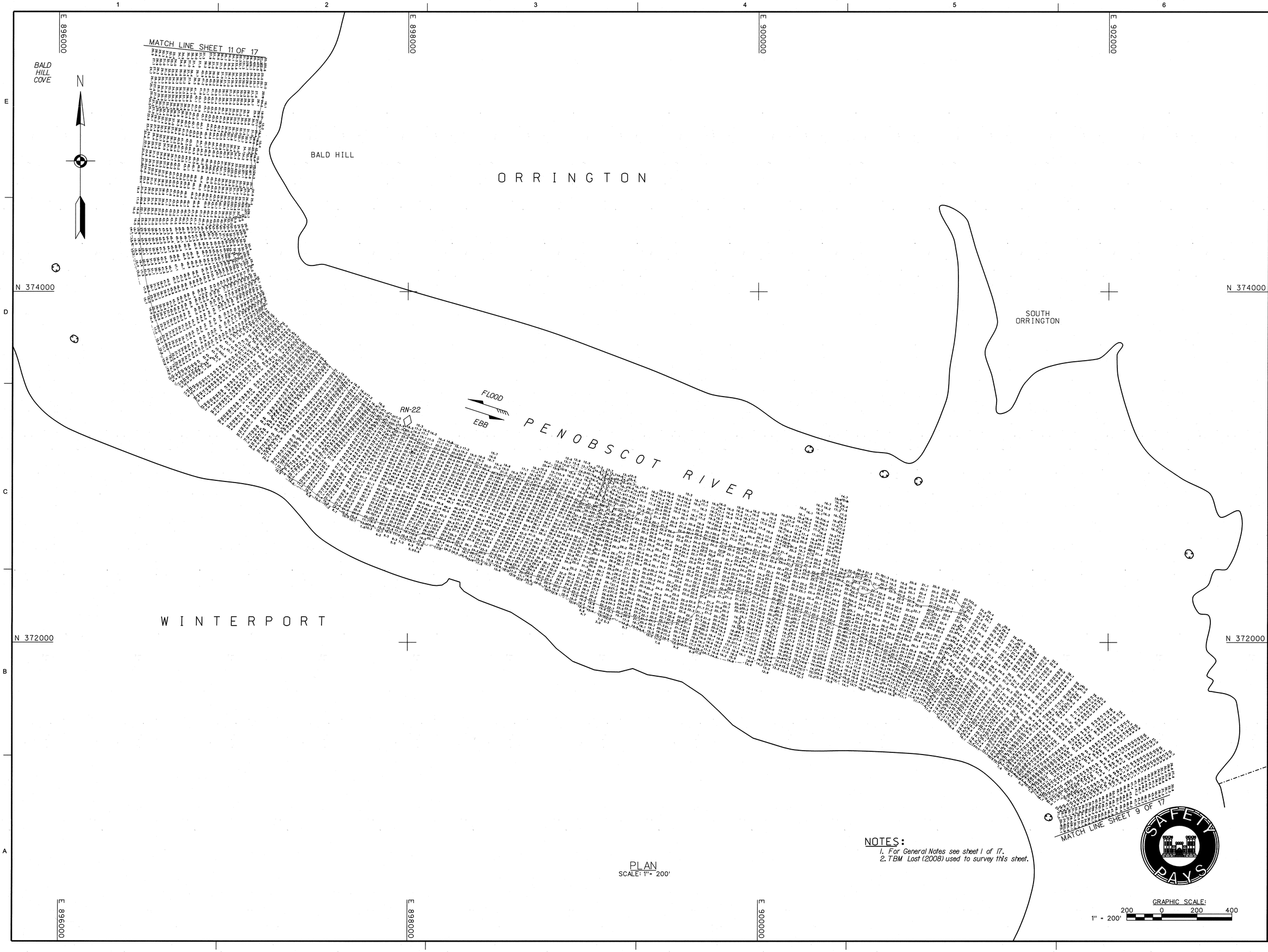
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
SIZE: ANSI F
FILE NAME: PEN2668V109.S09
DATE: 12/14/10
DWN BY: SWK
CKD BY: MRM
DESIGN FILE: PENHSP3.DGN
DRAWING CODE: 2668

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-109
SHEET 9 OF 17



PLAN
SCALE: 1"= 200'

NOTES:
1. For General Notes see sheet 1 of 17.
2. TBM Lost (2008) used to survey this sheet.

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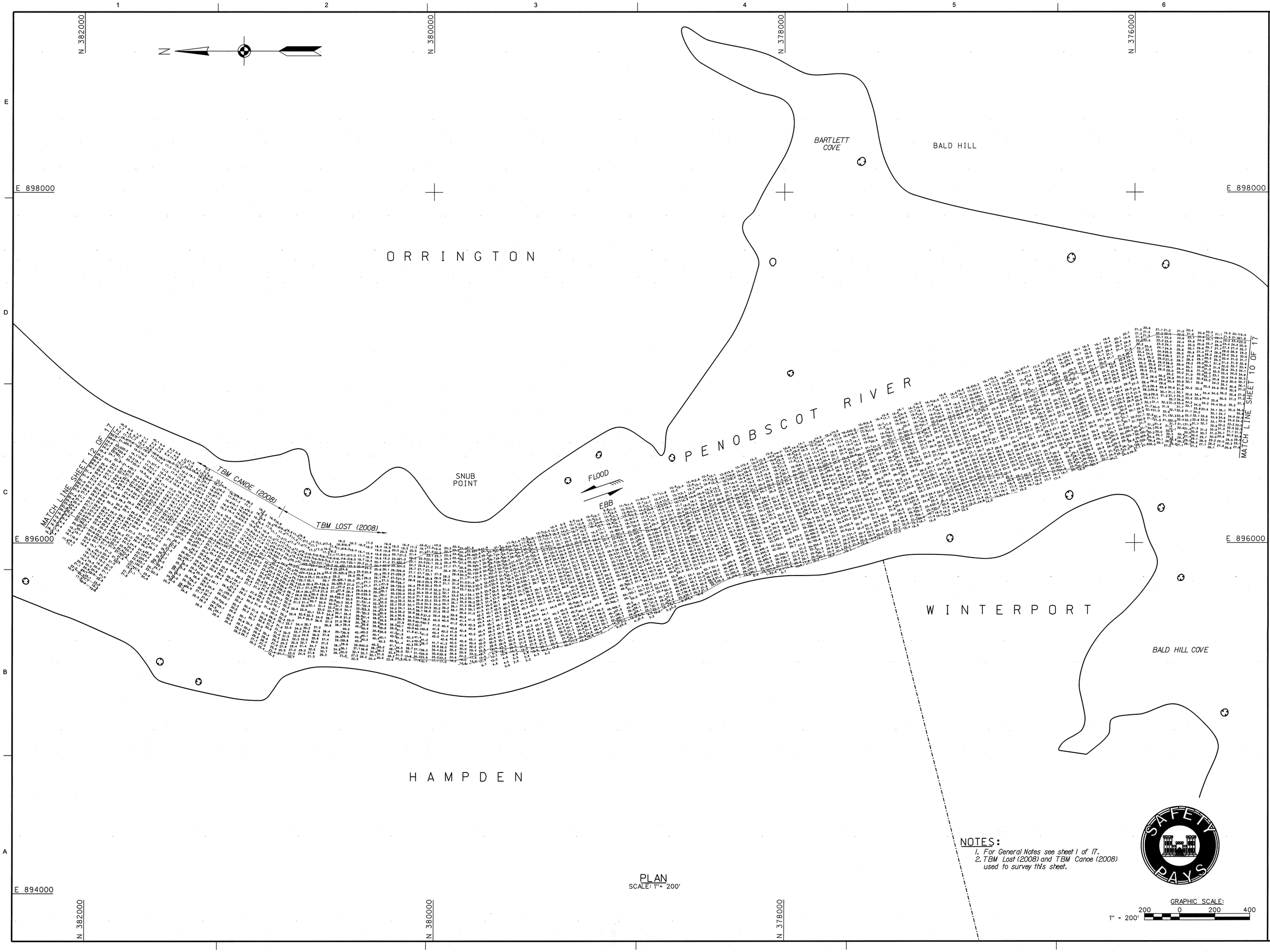
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
SIZE: ANSI F
FILE NAME: PEN2668V110.S10
DATE: 12/14/10
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: PENHSP3.DGN
DRAWING CODE: 2668

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-110
SHEET 10 OF 17



PLAN
SCALE: 1" = 200'

NOTES:
1. For General Notes see sheet 1 of 17.
2. TBM Lost (2008) and TBM Canoe (2008) used to survey this sheet.

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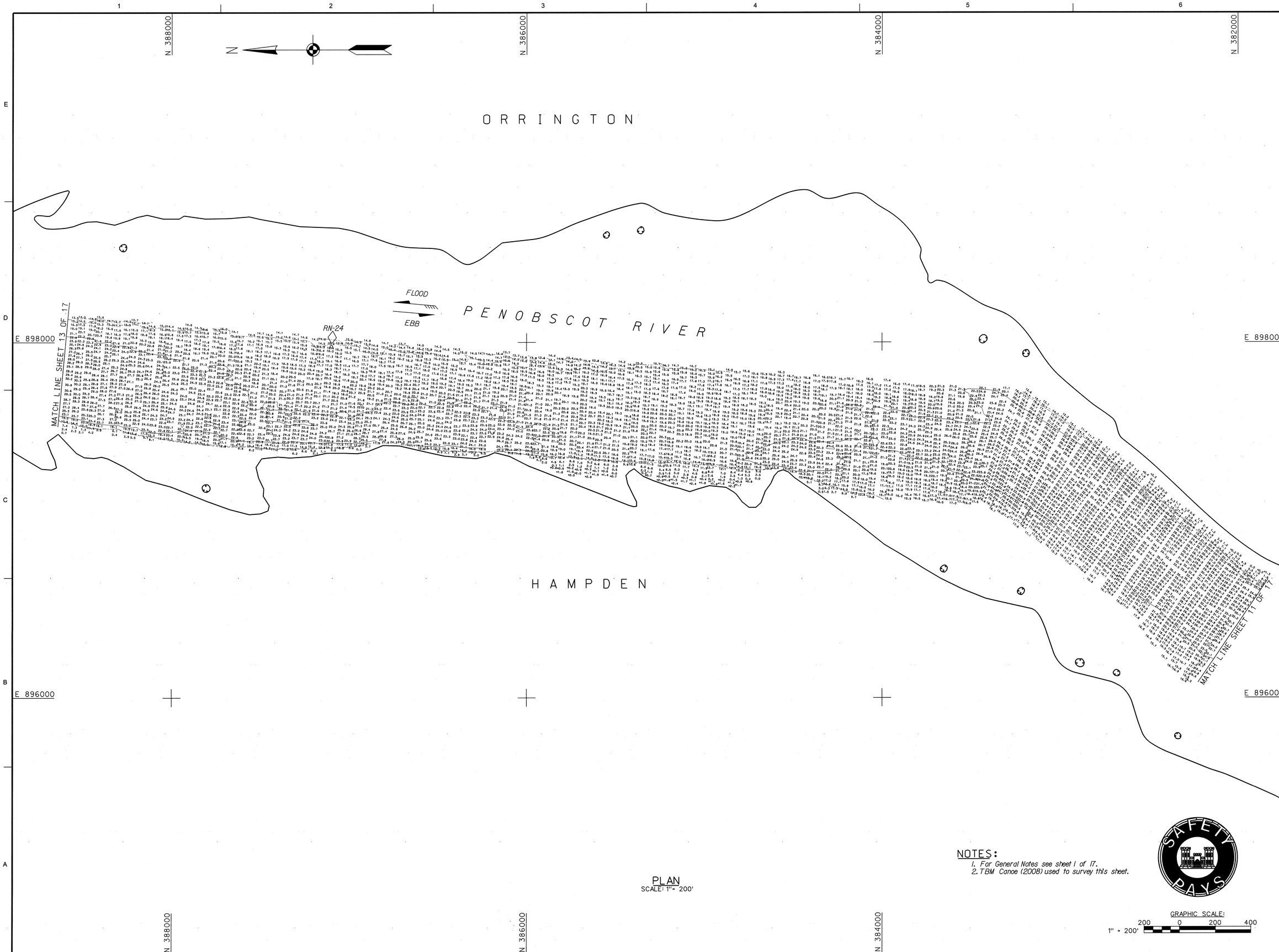
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/14/10
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: PENOBS3.DGN
DRAWING CODE: 2668
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
SIZE: ANSI F
FILE NAME: PEN2668V111.S11

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-111
SHEET 11 OF 17



PLAN
SCALE: 1" = 200'

NOTES:
1. For General Notes see sheet 1 of 17.
2. TBM Canoe (2008) used to survey this sheet.

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

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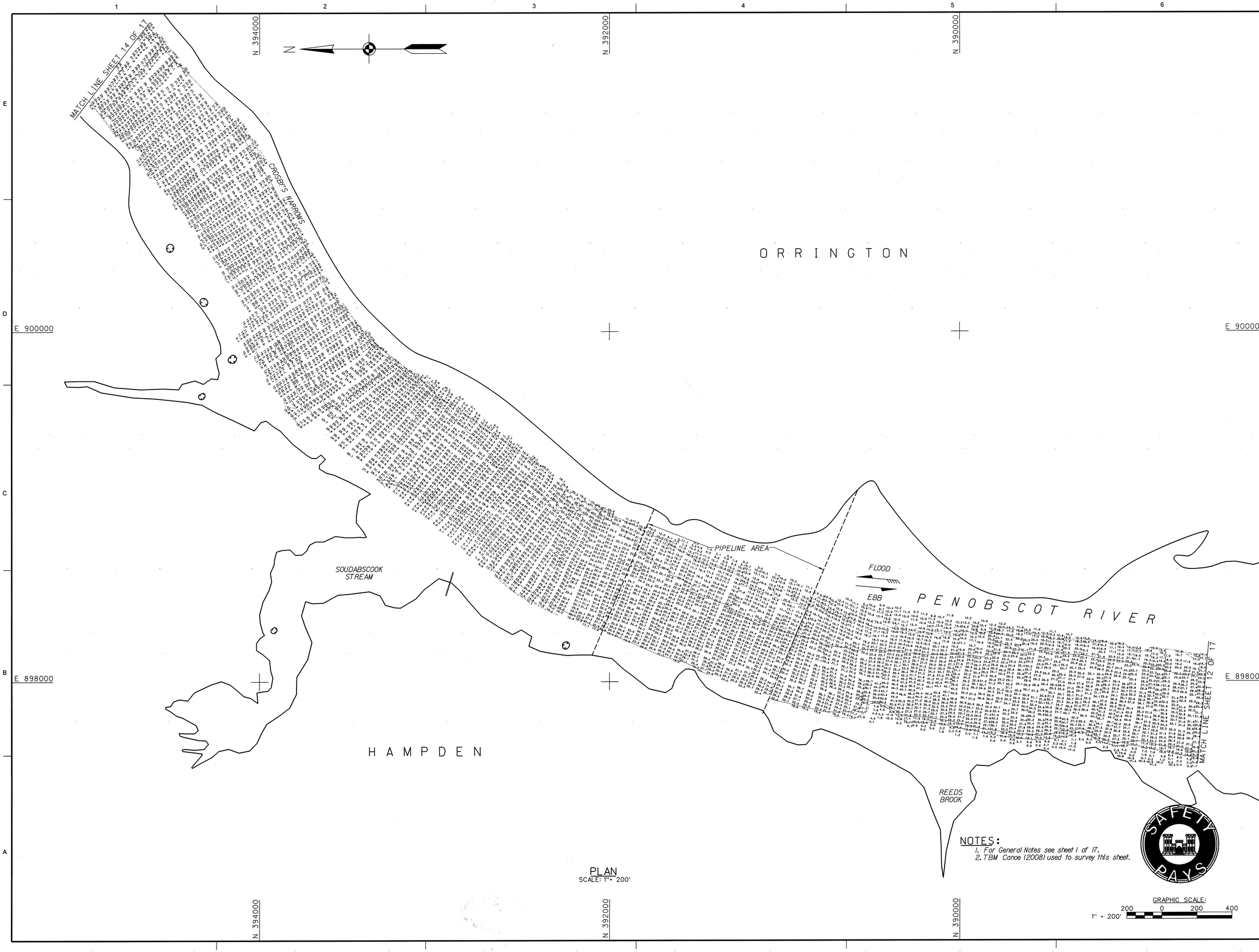
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/14/10
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: PENNSP3.DGN
DRAWING CODE: 2668
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
SIZE: ANSI F
FILE NAME: PEN2668V112.S12

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-112
SHEET 12 OF 17



NOTES:
1. For General Notes see sheet 1 of 17.
2. TBM Canoe (2008) used to survey this sheet.

PLAN
SCALE: 1" = 200'

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

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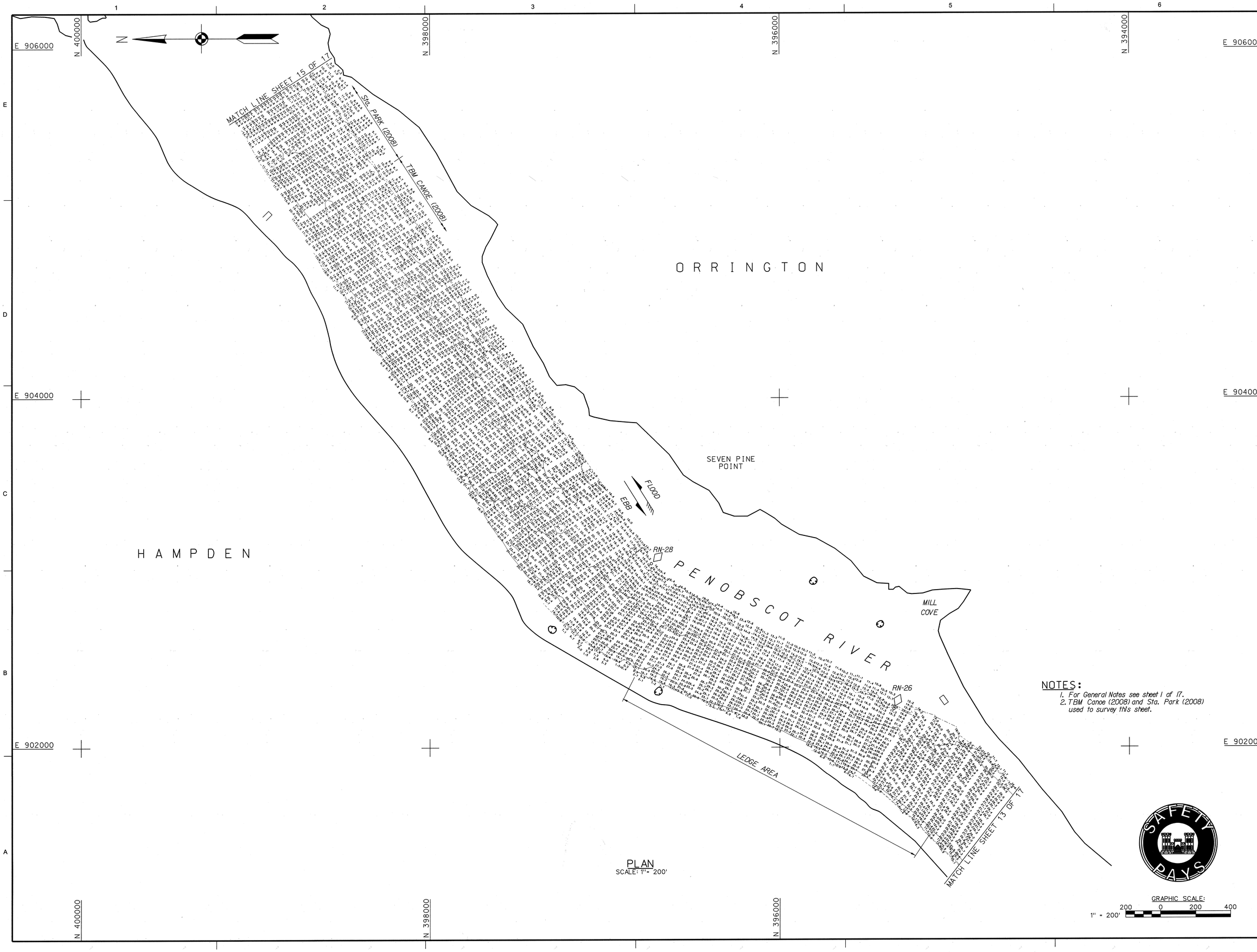
REVIEWED BY: Mike Tinkey, Asst. Chief, Survey Section
SUBMITTED BY: Mike Tinkey, Chief, Survey Section
DATE: 12/14/10
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: PENHSP3.DGN
DRAWING CODE: 2668
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
SIZE: ANSI F
FILE NAME: PENOBSKY113.S13

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-113
SHEET 13 OF 17



PLAN
SCALE: 1" = 200'

NOTES:
1. For General Notes see sheet 1 of 17.
2. TBM Canoe (2008) and Sta. Park (2008) used to survey this sheet.

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REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
SIZE: ANSI F
FILE NAME: PEN2668V114.S14
DATE: 12/14/10
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: PENHSP3.DGN
DRAWING CODE: 2668

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-114
SHEET 14 OF 17

PLAN
SCALE: 1"= 200'

NOTES:
1. For General Notes see sheet 1 of 17.
2. Sta. Park (2008) used to survey this sheet.

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

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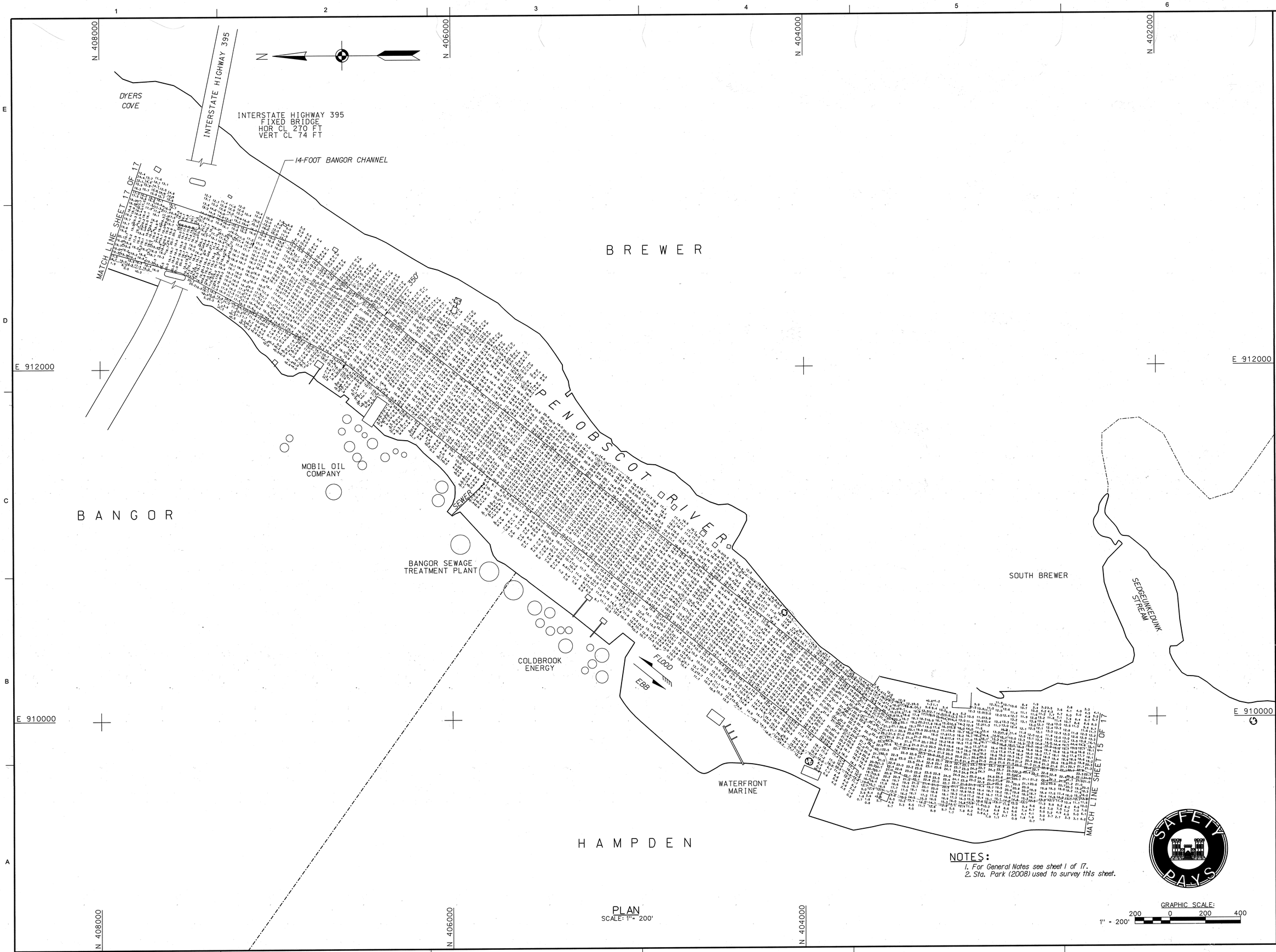
SUBMITTED BY: Chief, Survey Section
DATE: 12/14/10
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: PENRSP3.DGN
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
DRAWING CODE: 2668
SIZE: ANSI F
FILE NAME: PEN2668V115.S15

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-115
SHEET 15 OF 17



NOTES:
1. For General Notes see sheet 1 of 17.
2. Sta. Park (2008) used to survey this sheet.

PLAN
SCALE: 1" = 200'

US Army Corps of Engineers®
New England District

MARK	DESCRIPTION	DATE	APPR

MARK	DESCRIPTION	DATE	APPR

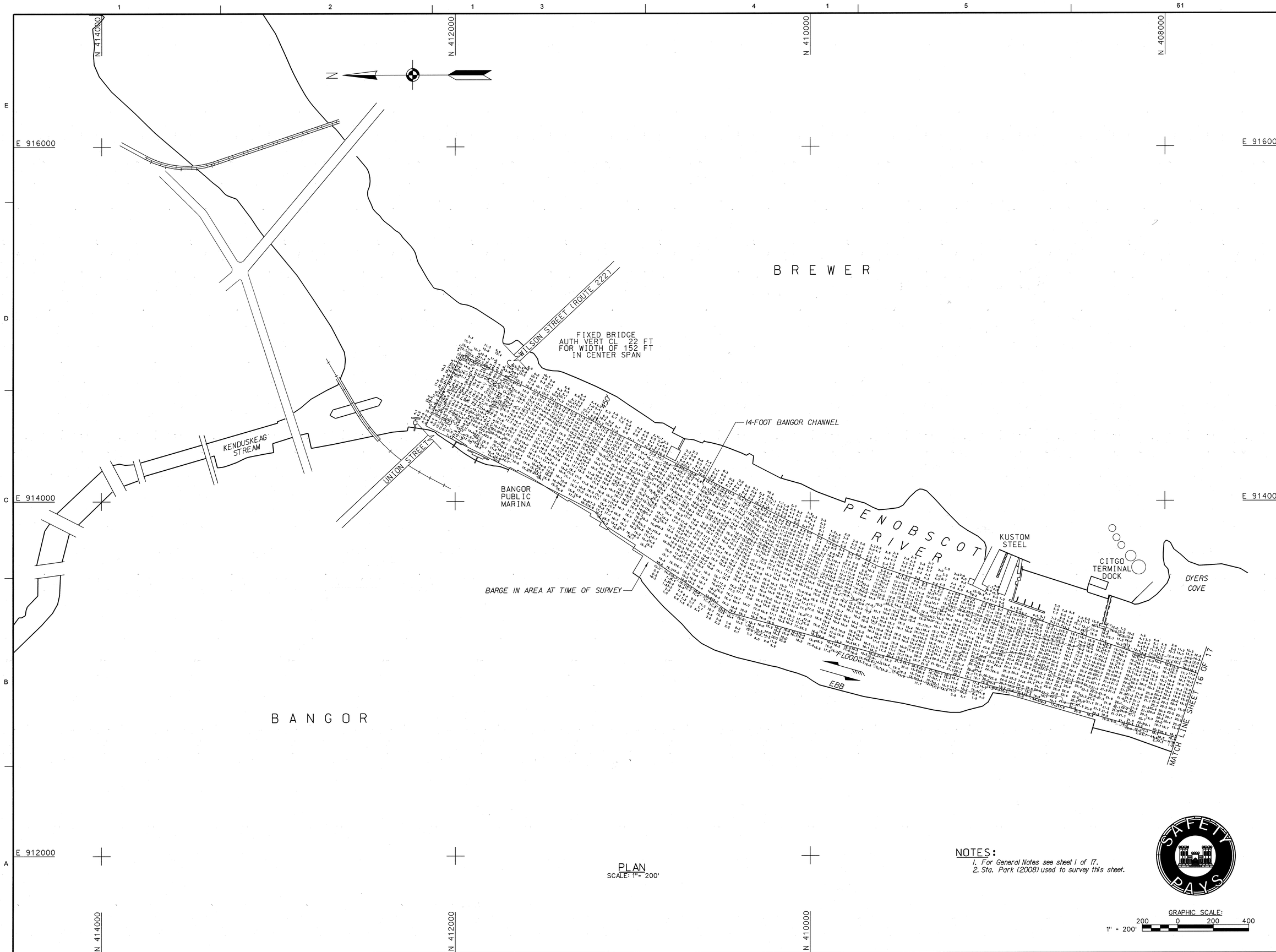
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 12/14/10
DWN BY: SWK
CKD BY: MTM
DESIGN FILE: PENHSP3.DGN
DRAWING CODE: 2668
PLOT SCALE: 1" = 200'
PLOT DATE: 12/14/2010
SIZE: ANSI F
FILE NAME: PEN2668V116.S16

PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-116
SHEET 16 OF 17



PLAN
SCALE: 1"= 200'

NOTES:
1. For General Notes see sheet 1 of 17.
2. Sta. Park (2008) used to survey this sheet.

SAFETY PAYS

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

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PENOBSCOT RIVER
BUCKSPORT TO BANGOR, MAINE
CONDITION SURVEY

14 AND 22-FOOT CHANNELS

SHEET IDENTIFICATION
V-117
SHEET 17 OF 17