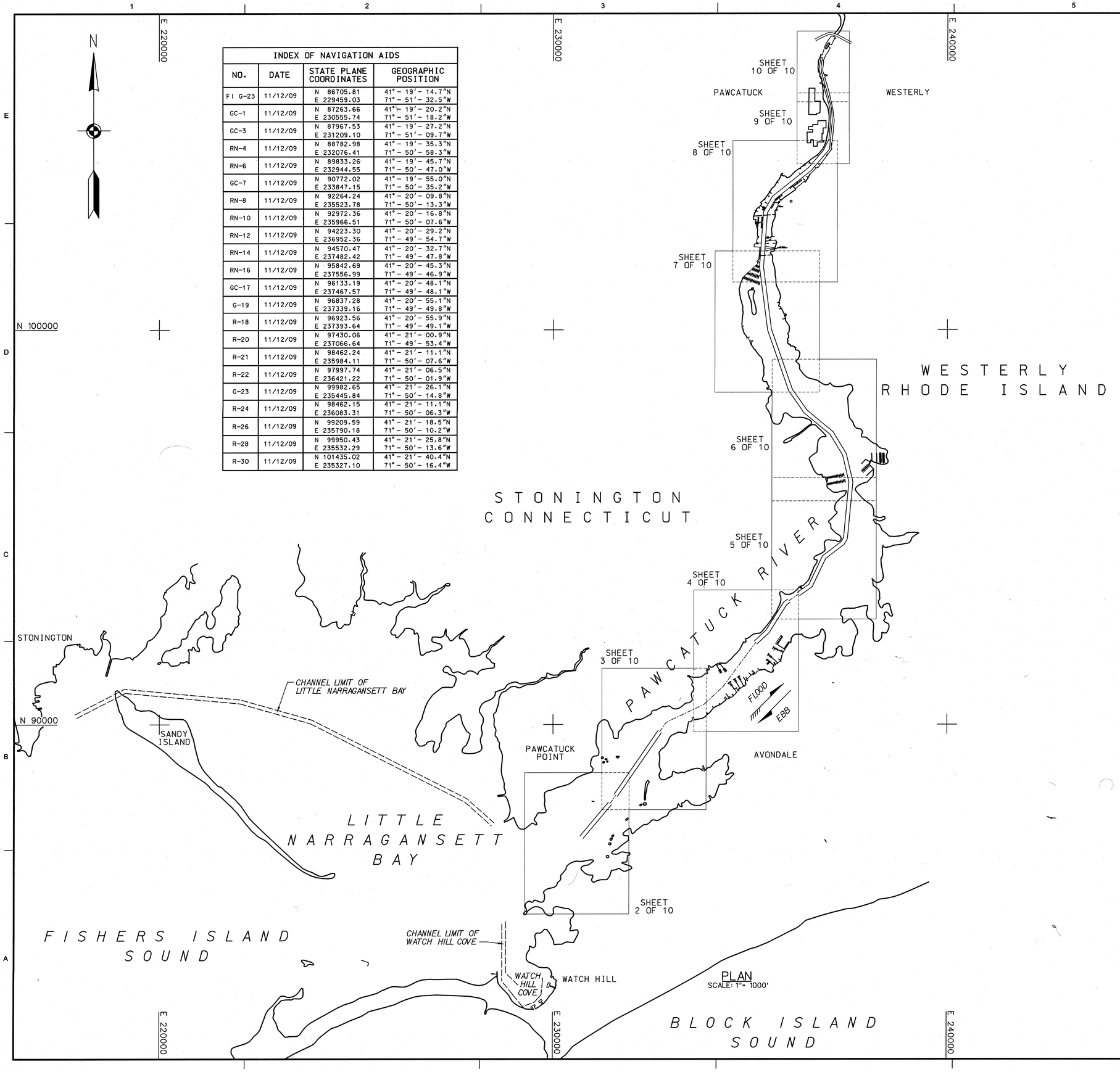
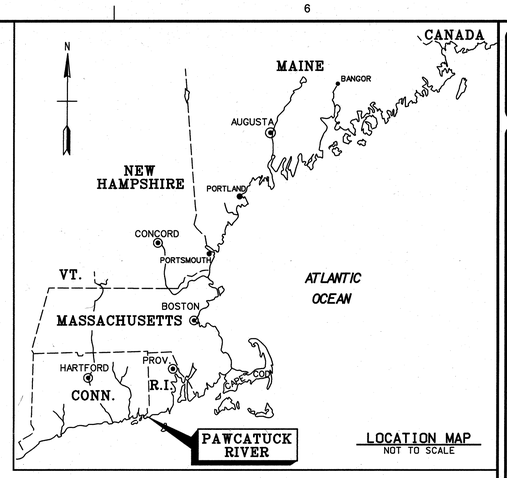
| INDEX OF NAVIGATION AIDS | | | |
|---|---|---|---|
| NO. | DATE | STATE PLANE COORDINATES | GEOGRAPHIC POSITION |
| Fl G-23 | 11/12/09 | N 86705.81<br>E 229459.03 | 41°- 19′- 14.7″N<br>71°- 51′- 32.5″W |
| GC-1 | 11/12/09 | N 87263.66<br>E 230555.74 | 41°- 19′- 20.2″N<br>71°- 51′- 18.2″W |
| GC-3 | 11/12/09 | N 87967.53<br>E 231209.10 | 41°- 19′- 27.2″N<br>71°- 51′- 09.7″W |
| RN-4 | 11/12/09 | N 88782.98<br>E 232076.41 | 41°- 19′- 35.3″N<br>71°- 50′- 58.3″W |
| RN-6 | 11/12/09 | N 89833.26<br>E 232944.55 | 41°- 19′- 45.7″N<br>71°- 50′- 47.0″W |
| GC-7 | 11/12/09 | N 90772.02<br>E 233847.15 | 41°- 19′- 55.0″N<br>71°- 50′- 35.2″W |
| RN-8 | 11/12/09 | N 92264.24<br>E 235523.78 | 41°- 20′- 09.8″N<br>71°- 50′- 13.3″W |
| RN-10 | 11/12/09 | N 92972.36<br>E 235966.51 | 41°- 20′- 16.8″N<br>71°- 50′- 07.6″W |
| RN-12 | 11/12/09 | N 94223.30<br>E 236952.36 | 41°- 20′- 29.2″N<br>71°- 49′- 54.7″W |
| RN-14 | 11/12/09 | N 94570.47<br>E 237482.42 | 41°- 20′- 32.7″N<br>71°- 49′- 47.8″W |
| RN-16 | 11/12/09 | N 95842.69<br>E 237556.99 | 41°- 20′- 45.3″N<br>71°- 49′- 46.9″W |
| GC-17 | 11/12/09 | N 96133.19<br>E 237467.57 | 41°- 20′- 48.1″N<br>71°- 49′- 48.1″W |
| G-19 | 11/12/09 | N 96837.28<br>E 237339.16 | 41°- 20′- 55.1″N<br>71°- 49′- 49.8″W |
| R-18 | 11/12/09 | N 96923.56<br>E 237393.64 | 41°- 20′- 55.9″N<br>71°- 49′- 49.1″W |
| R-20 | 11/12/09 | N 97430.06<br>E 237066.64 | 41°- 21′- 00.9″N<br>71°- 49′- 53.4″W |
| R-21 | 11/12/09 | N 98462.24<br>E 235984.11 | 41°- 21′- 11.1″N<br>71°- 50′- 07.6″W |
| R-22 | 11/12/09 | N 97997.74<br>E 236421.22 | 41°- 21′- 06.5″N<br>71°- 50′- 01.9″W |
| G-23 | 11/12/09 | N 99982.65<br>E 235445.84 | 41°- 21′- 26.1″N<br>71°- 50′- 14.8″W |
| R-24 | 11/12/09 | N 98462.15<br>E 236083.31 | 41°- 21′- 11.1″N<br>71°- 50′- 06.3″W |
| R-26 | 11/12/09 | N 99209.59<br>E 235790.18 | 41°- 21′- 18.5″N<br>71°- 50′- 10.2″W |
| R-28 | 11/12/09 | N 99950.43<br>E 235532.29 | 41°- 21′- 25.8″N<br>71°- 50′- 13.6″W |
| R-30 | 11/12/09 | N 101435.02<br>E 235327.10 | 41°- 21′- 40.4″N<br>71°- 50′- 16.4″W |




PLAN
SCALE: 1"= 1000'




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. 12372. 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 6: TBM Riverside (2009) is a mag nail driven flush in the asphalt area at the east end of Greenhaven Marina in the vicinity of a paved boat ramp, 54.8 feet east of the most southern pile of a covered deck that leads to a float system, and 9.3 feet north of the northern pile adjacent to a steel train trestle launching ramp. Elevation is 5.59 feet above MLLW.
4. Bench Mark Data for Sheets 6 thru 10: BM 1 (1917/2009) is set in a flagstone walk at the foot of the granite steps leading down from a sidewalk across from the house at 4 Margin Street, about 256.0 feet southwest of the intersection of Main, Margin and Beach Streets, 13.5 feet southeast of the southeast side of the seawall, 12.0 feet northwest of the northwest curb of Margin Street, 1.1 foot west of the north corner of the bottom step, and about 5.0 feet below the level of Margin Street. Elevation is 5.41 feet above MLLW.
5. Coordinates shown are based on the Transverse Mercator Grid System for the State of Rhode Island (Zone 3800) and NAD 1983.
6. Survey was performed using an Odom MK3 echotrac echosounder. Horizontal positioning and vertical depths were obtained utilizing a Leica 1200 GPS System. RTK base station for Sheets 2 thru 6 was set up on TBM Riverside (2009) and for Sheets 6 thru 10 was set up on BM 1 (1917/2009).
7. The sounding information shown on these maps represents the SHOALEST soundings of those obtained from hydrographic surveys conducted from November thru December 2009.
8. 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.
9. 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.
10. Dock locations in Pawcatuck River from survey of October 2009.
11. Field Book: R&H 5077

7-foot depth contour shown thus:
10-foot depth contour shown thus:
Approximate cable area shown thus:
Surveyed by: Robert MacGovern and crew
Refer to Survey No. 10-1038

GRAPHIC SCALE:
1000 0 1000 2000
1" = 1000'

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

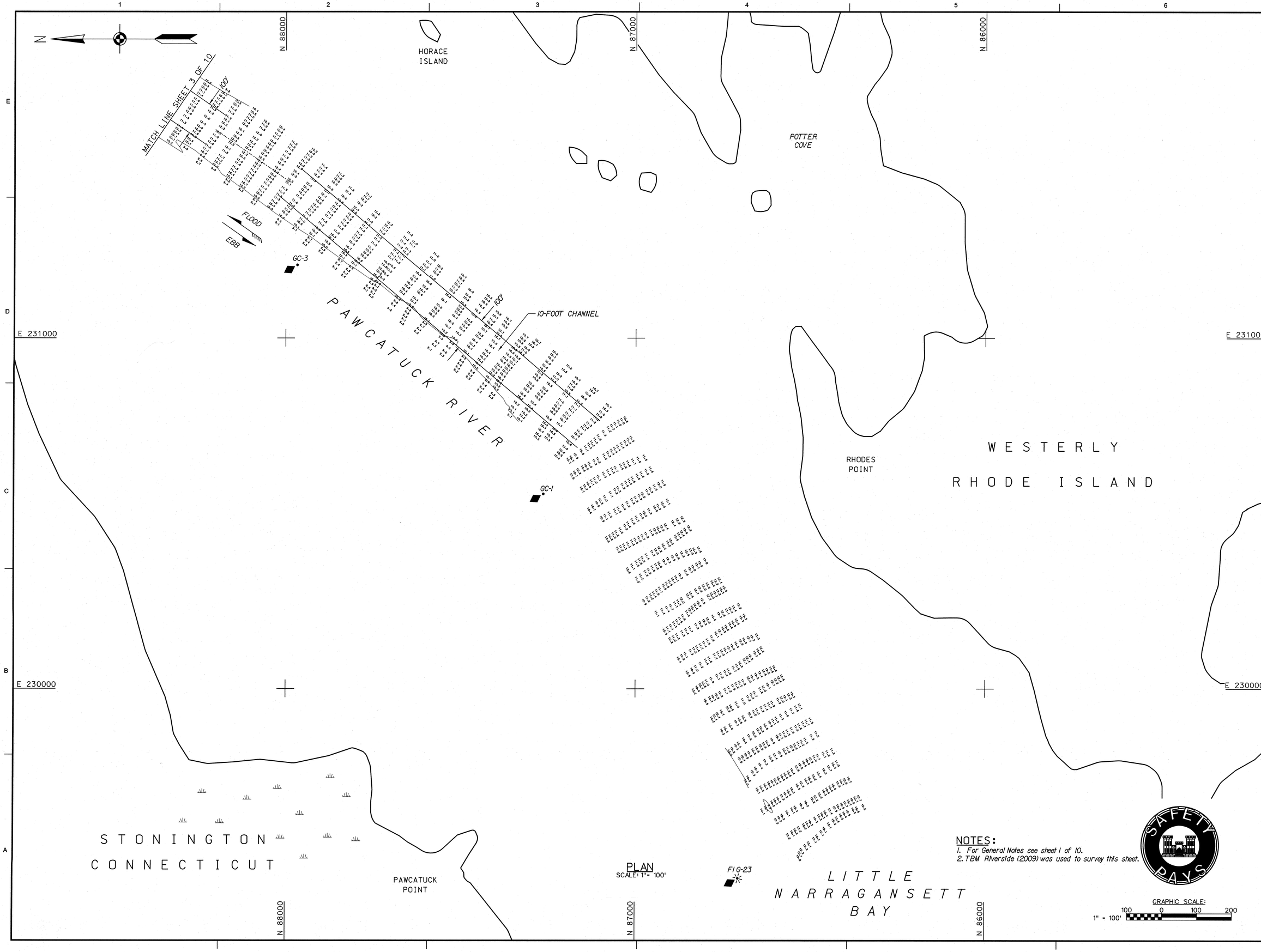
REVIEWED BY: Asst. Chief, Survey Section
Chief, Survey Section

DATE: 5/30/2012
DWN BY: MWV
CKD BY: MJG
DESIGN FILE: PAWMSPLDGN
DRAWING CODE: PA101
PLOT DATE: 1/4/2012
PLOT SCALE: 1" = 1000'
SIZE: ANSI F
FILE NAME: PAWM11V101.501

PAWCATUCK RIVER
STONINGTON, CONNECTICUT AND WESTERLY, RHODE ISLAND
CONDITION SURVEY

7 AND 10-FOOT CHANNELS

SHEET IDENTIFICATION
V-101
SHEET 1 OF 10




PLAN
SCALE: 1" = 100'

NOTES:
1. For General Notes see sheet 1 of 10.
2. TBM Riverside (2009) was used to survey this sheet.

SAFETY PAYS

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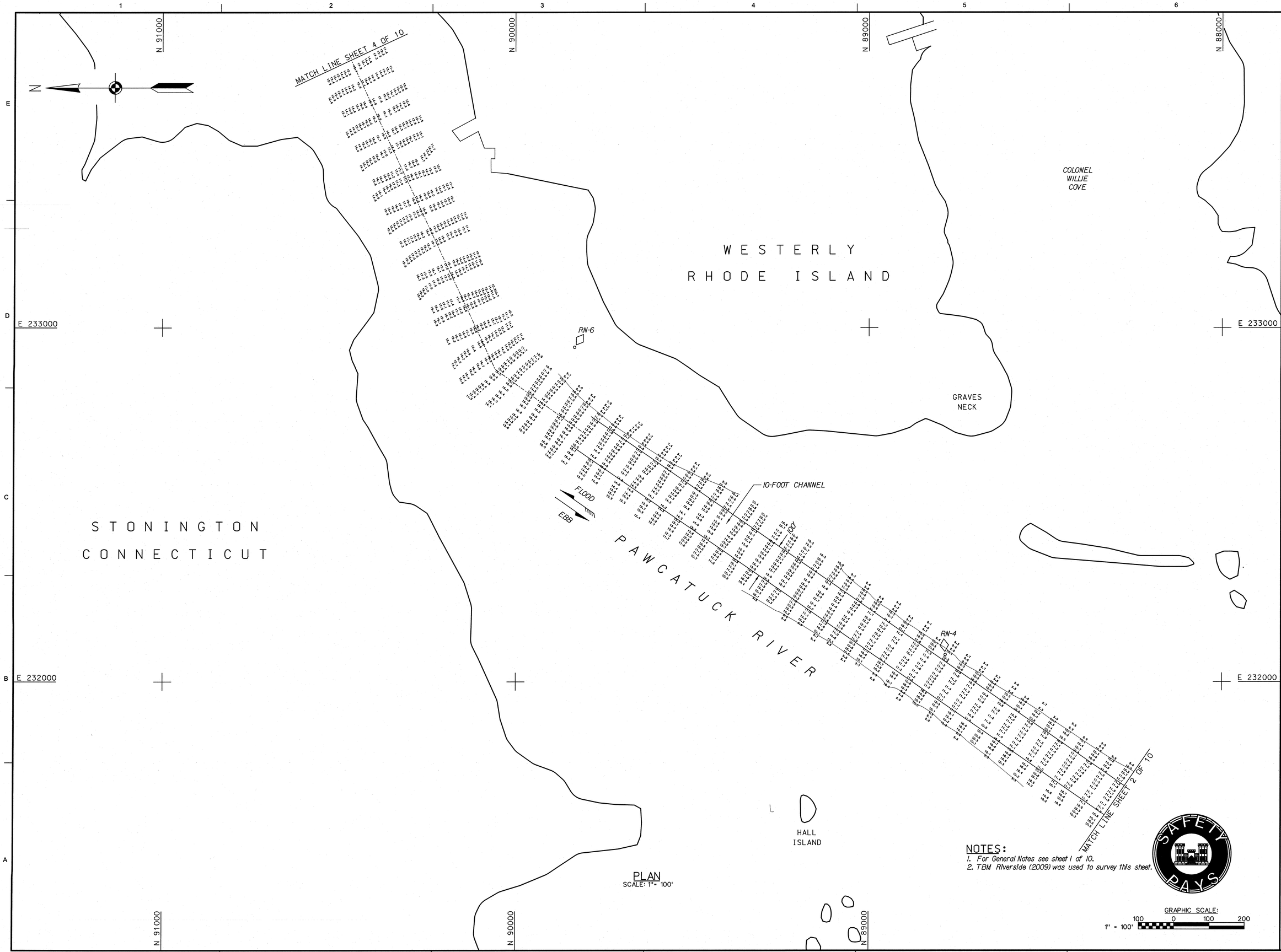
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Lt Col. Jason T. Dix, Chief, Coastal Section
SUBMITTED BY: Richard J. Fuller, Chief, Hydraulic Design Section
DATE: 7/23/2012
DWN BY: SWK
CKD BY: VJG
DESIGN FILE: PawcatuckVol4.dgn
DRAWING CODE: PK 611
PLOT SCALE: 1" = 100'
PLOT DATE: 4/30/2012
SIZE: ANSI-E
FILE NAME: PawcatuckVol4.dgn

PAWCATUCK RIVER
STONINGTON, CONNECTICUT AND WESTERLY, RHODE ISLAND
CONDITION SURVEY

7 AND 10-FOOT CHANNELS

SHEET IDENTIFICATION
V-102
SHEET 2 OF 10




PLAN
SCALE: 1"= 100'

NOTES:
1. For General Notes see sheet 1 of 10.
2. TBM Riverside (2009) was used to survey this sheet.

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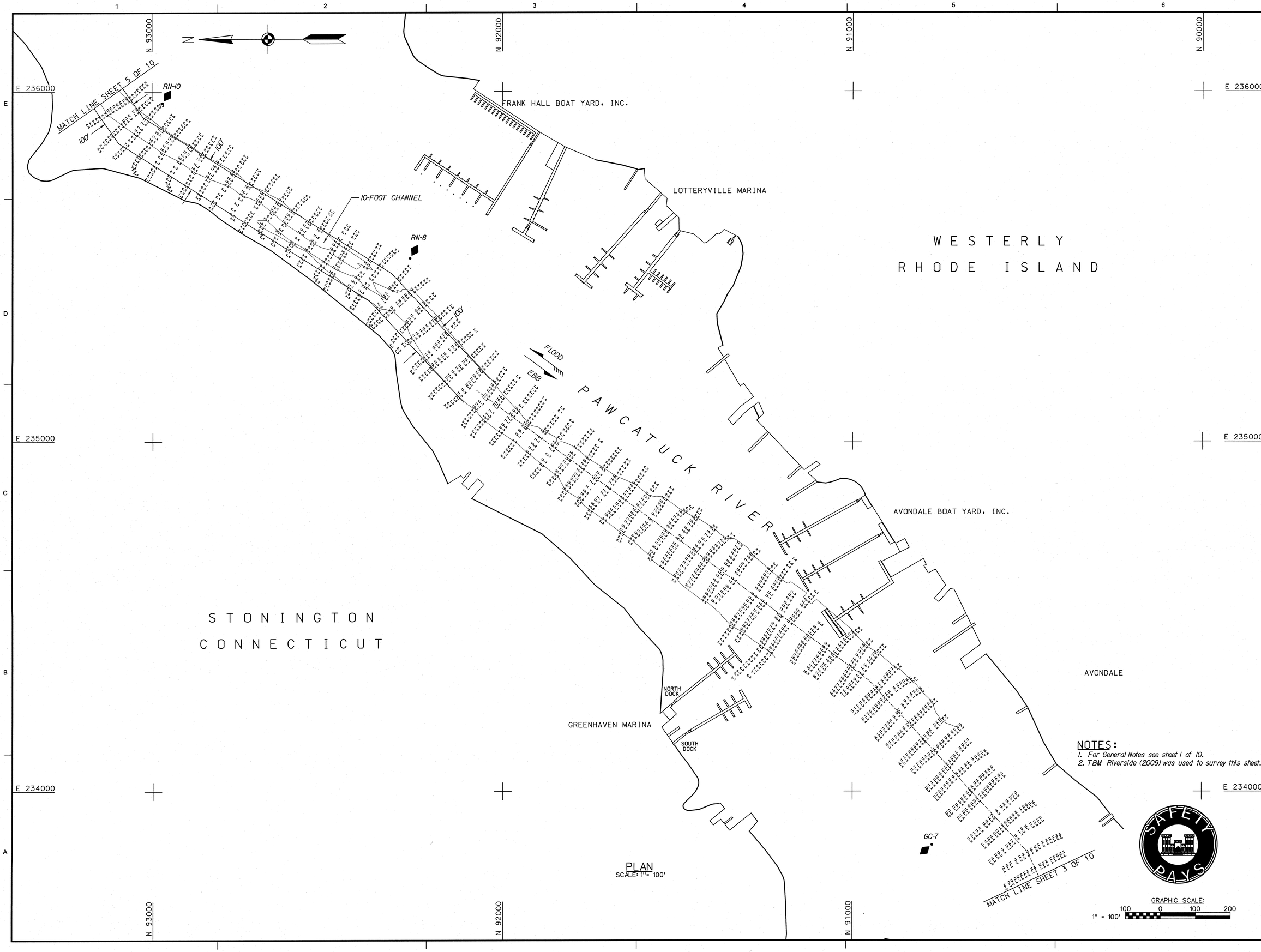
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Alex Cheng Chief, Survey Section
DATE: 1/30/2012
DWN BY: SWK
CKD BY: VJG
SUBMITTED BY: Paul Fitzgerald Project Manager
DESIGN FILE: PAWCATUCK.dgn
PLOT SCALE: 1" = 100'
PLOT DATE: 4/20/2012
DRAWING CODE: PK 611
SIZE: ANSI E
FILE NAME: PAWCATUCK503

PAWCATUCK RIVER
STONINGTON, CONNECTICUT AND
WESTERLY, RHODE ISLAND
CONDITION SURVEY

7 AND 10-FOOT CHANNELS

SHEET IDENTIFICATION
V-103
SHEET 3 OF 10




PLAN
SCALE: 1"= 100'

NOTES:
1. For General Notes see sheet 1 of 10.
2. TBM Riverside (2009) was used to survey this sheet.

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

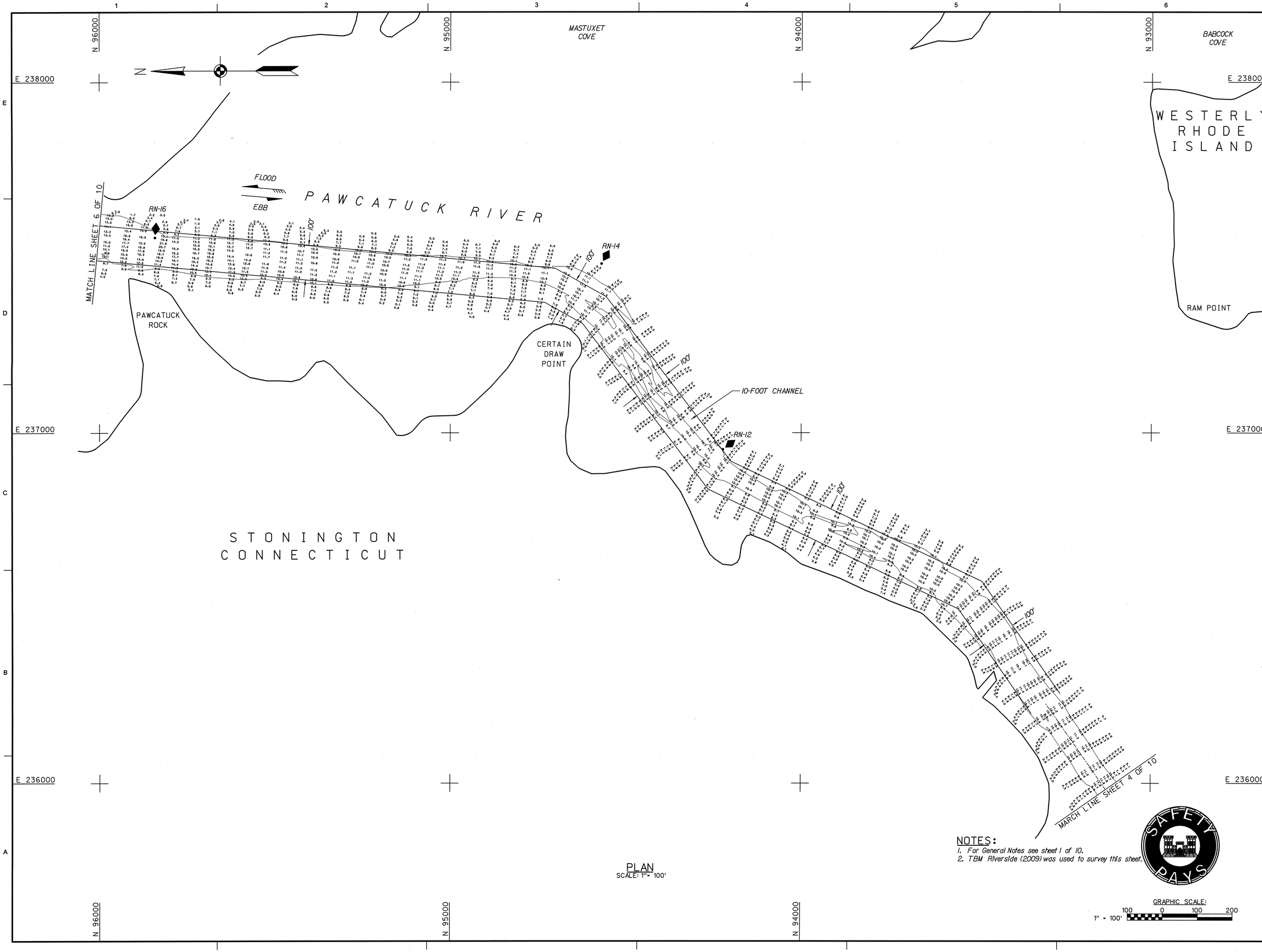
REVIEWED BY: Nicholas S. Tomaszewski
SUBMITTED BY: Stephen M. Pratt
DATE: 5/21/2012
DWN BY: SWK
CKD BY: JAG
DESIGN FILE: PAWCATUCK.DGN
PLOT SCALE: 1" = 100'
PLOT DATE: 4/30/2012
DRAWING CODE: PK 611
SIZE: ANSI F
FILE NAME: P2A0811134.504

PAWCATUCK RIVER
STONINGTON, CONNECTICUT AND
WESTERLY, RHODE ISLAND
CONDITION SURVEY

7 AND 10-FOOT CHANNELS

SAFETY PAYS

SHEET IDENTIFICATION
V-104
SHEET 4 OF 10




PLAN
SCALE: 1" = 100'

NOTES:
1. For General Notes see sheet 1 of 10.
2. TBM Riverside (2009) was used to survey this sheet.

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

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|---|---|---|---|---|---|---|---|

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NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
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REVIEWED BY: Nancy Nye
Lead Civil Engineer
SUBMITTED BY: Gerald Gustafson
Chief, Survey Section

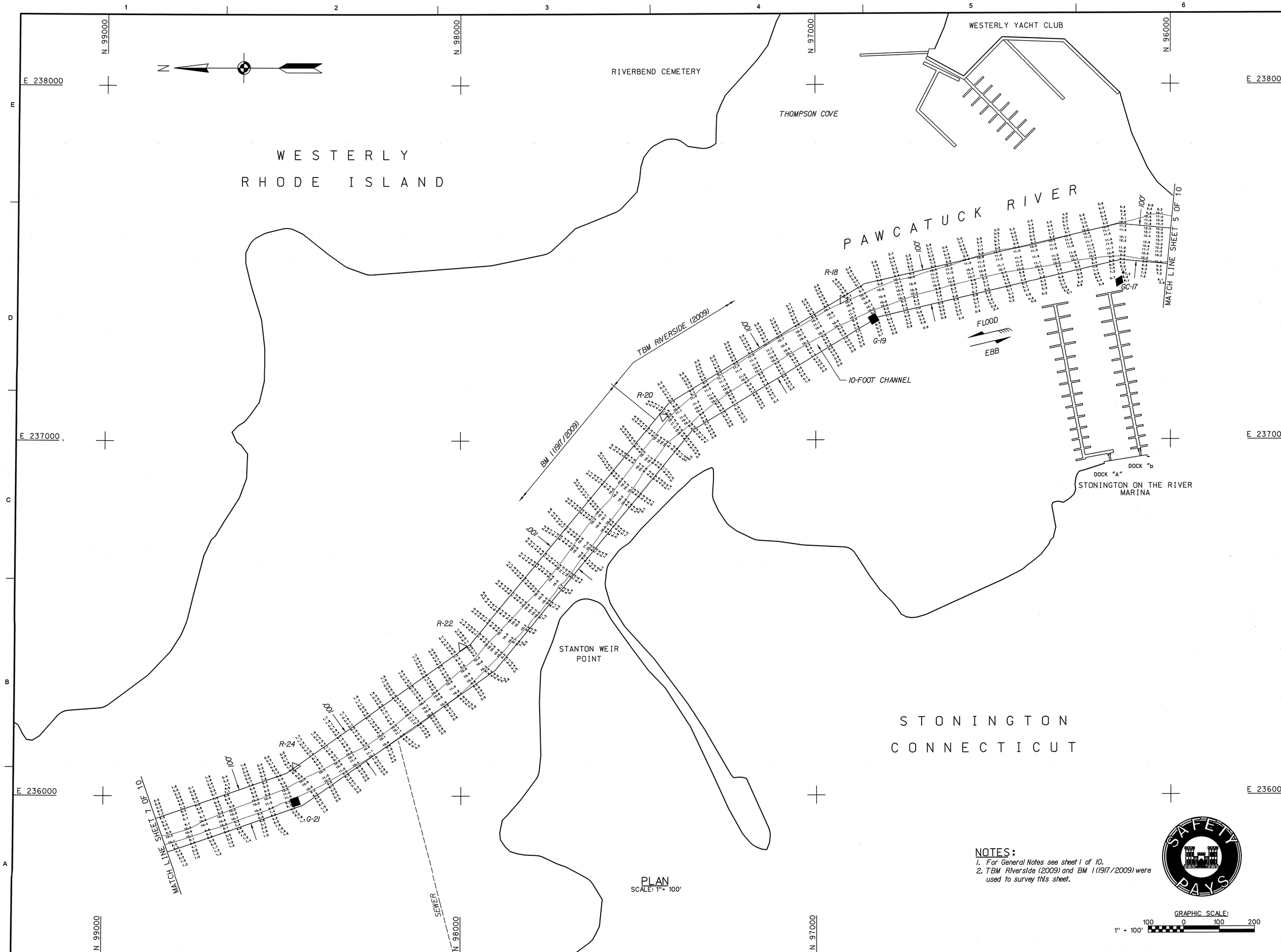
DATE: 5/31/2012
DWN: Y. Tong
SPC: S.F.
CKD: J.G.
DESIGN FILE: PAWHSP3.DGN
DRAWING CODE: PK-811
FILE NAME: PAWRS1V105.DGN

FOR PLOTTING SCALE: 1" = 100'
PLOT DATE: 4/30/2012
SIZE: ANSI F

PAWCATUCK RIVER
STONINGTON, CONNECTICUT AND
WESTERLY, RHODE ISLAND
CONDITION SURVEY

7 AND 10-FOOT CHANNELS

SHEET IDENTIFICATION
V-105
SHEET 5 OF 10




PLAN
SCALE: 1" = 100'

NOTES:
1. For General Notes see sheet 1 of 10.
2. TBM Riverside (2009) and BM 1 (1917/2009) were used to survey this sheet.

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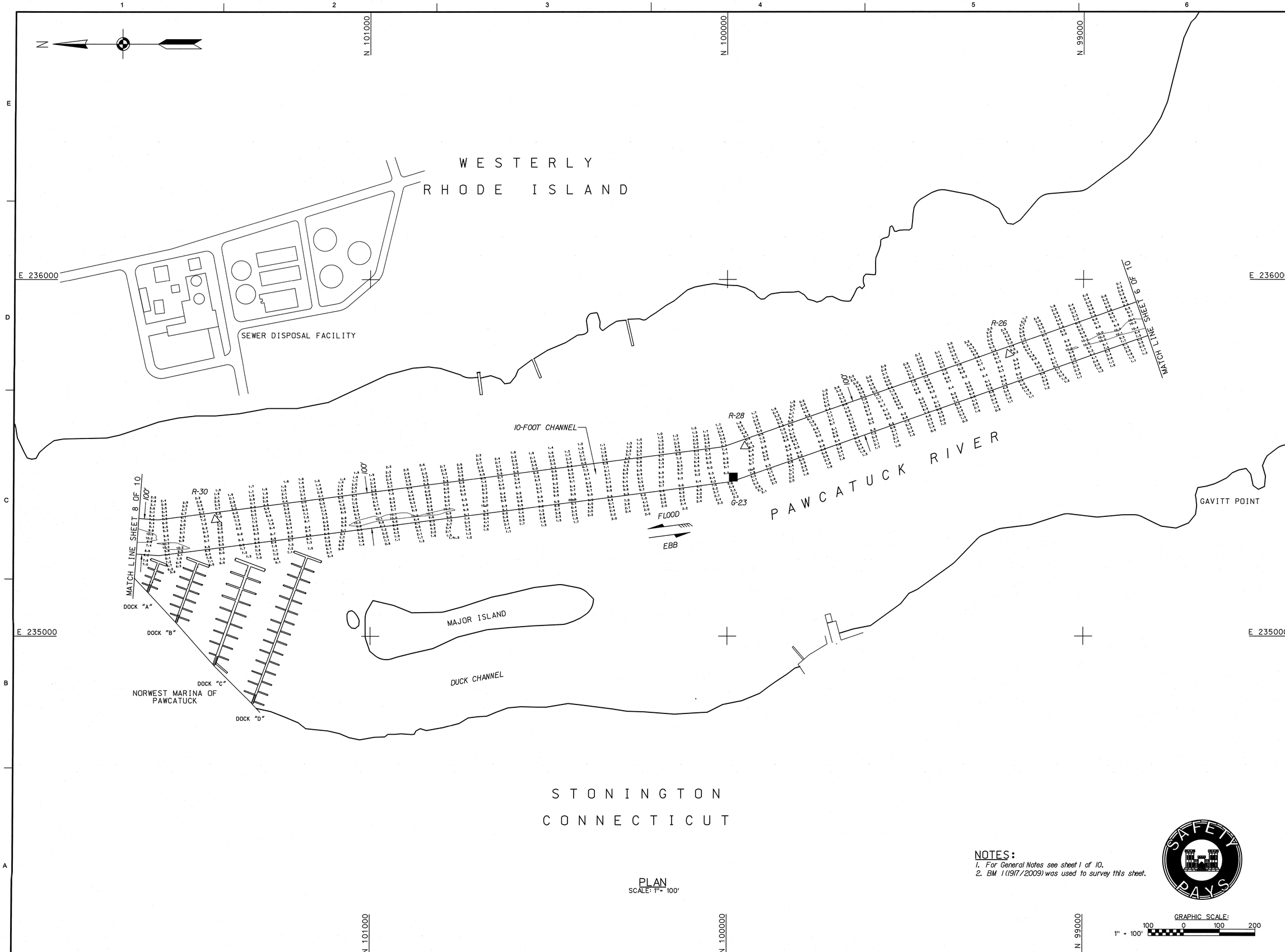
NEW ENGLAND DISTRICT
CONCORD, MASSACHUSETTS
www.nae.usace.army.mil

REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 7/31/2012
DWN BY: SWK
CKD BY: VJG
DESIGN FILE: PAWCATUCK.DGN
PLOT SCALE: 1" = 100'
PLOT DATE: 4/20/2012
DRAWING CODE: PK-611
FILE NAME: PAWR11V06.506
ACE-I

PAWCATUCK RIVER
STONINGTON, CONNECTICUT AND
WESTERLY, RHODE ISLAND
CONDITION SURVEY

7 AND 10-FOOT CHANNELS

SHEET IDENTIFICATION
V-106
SHEET 6 OF 10




PLAN
SCALE: 1" = 100'

NOTES:
1. For General Notes see sheet 1 of 10.
2. BM 1 (1917/2009) was used to survey this sheet.

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

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| MARK | DESCRIPTION | DATE | APPR. |
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DATE: 5/30/2012
DWN BY: SWK CKD BY: VJG
DESIGN FILE:
DRAWING NAME:
DRAWING CODE: PK-611
PLOT DATE: 4/30/2012
PLOT SCALE: 1" = 100'
SIZE: 24X36
FILE NAME: PK611_V107.DGN
REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section

U.S. ARMY CORPS OF ENGINEERS
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PAWCATUCK RIVER
STONINGTON, CONNECTICUT AND
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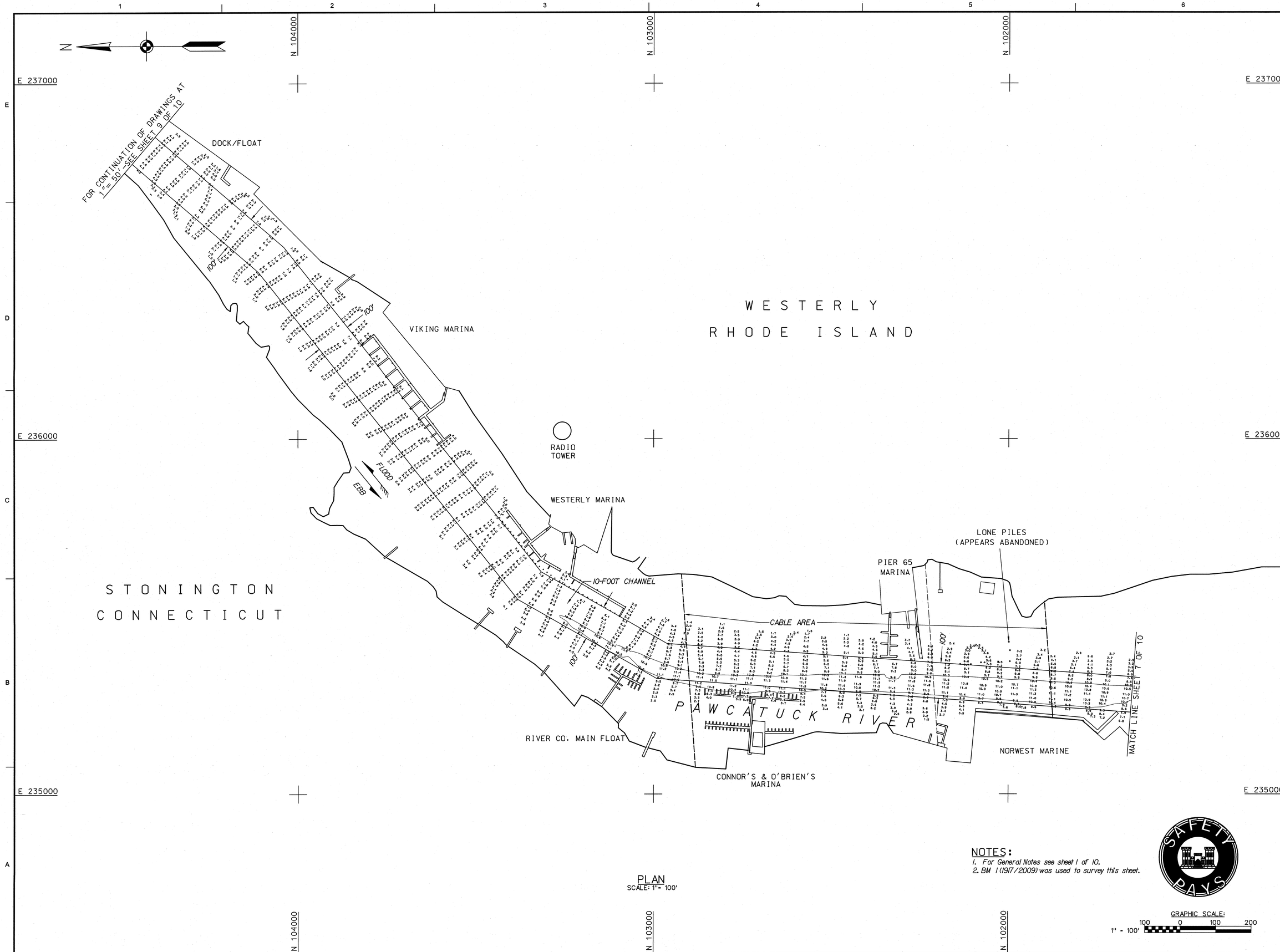
CONDITION SURVEY

7 AND 10-FOOT CHANNELS

SHEET IDENTIFICATION
V-107
SHEET 7 OF 10

SAFETY PAYS




PLAN
SCALE: 1" = 100'

NOTES:
1. For General Notes see sheet 1 of 10.
2. BM 1 (1917/2009) was used to survey this sheet.

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

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| MARK | DESCRIPTION | DATE | APPR. |
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DATE: 5/29/2012
DWN BY: SWK SWK
CKD BY: VJD VJD
DESIGN FILE: PAWCATUCK
DRAWING CODE: PK-611
PLOT SCALE: 1" = 100'
PLOT DATE: 4/30/2012
FILE NAME: PAWN11T108.509
SIZE: ANSI D
REVIEWED BY: Chief, Survey Section
Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section

U.S. ARMY CORPS OF ENGINEERS
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PAWCATUCK RIVER
STONINGTON, CONNECTICUT AND
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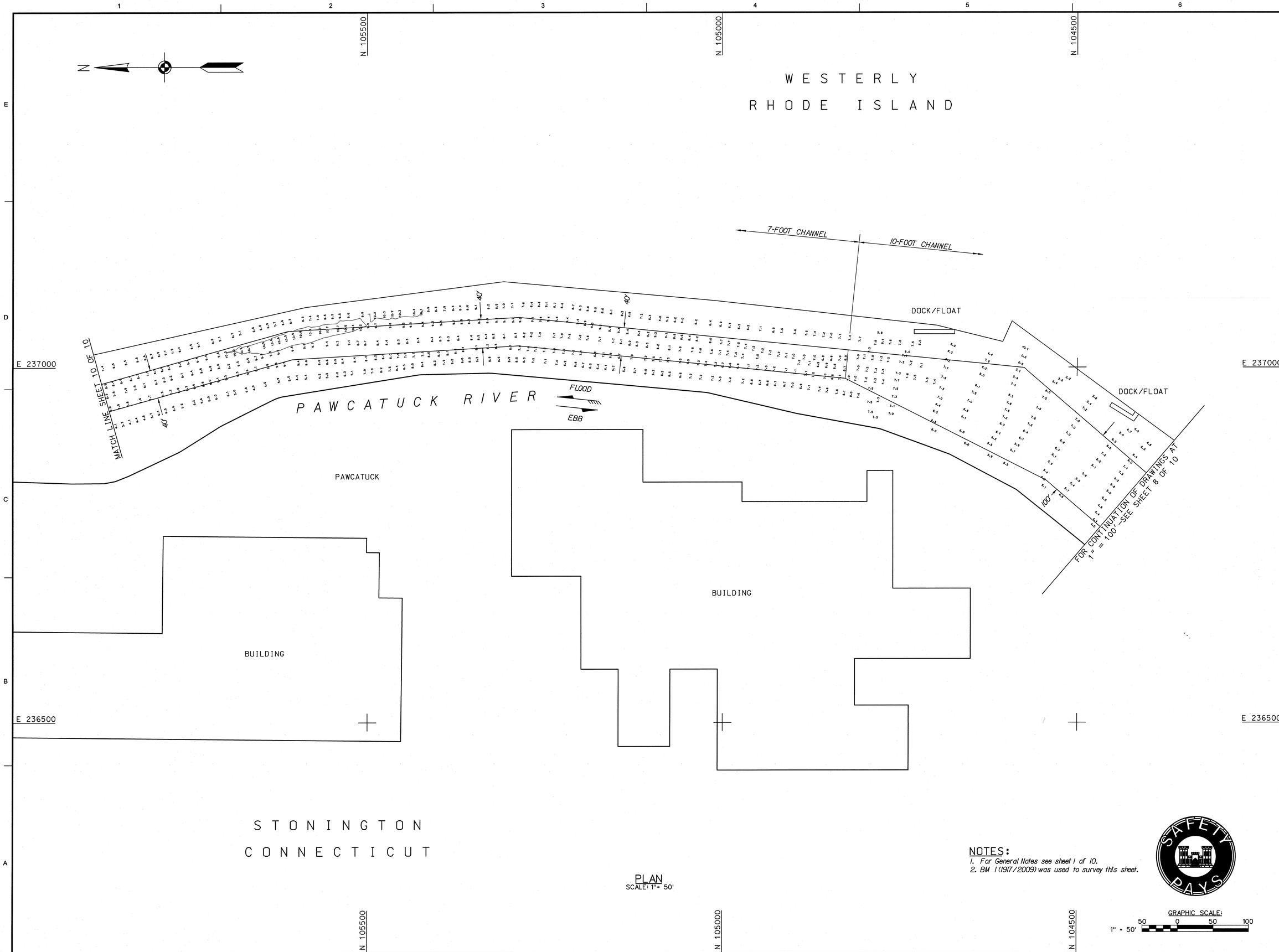
CONDITION SURVEY

7 AND 10-FOOT CHANNELS

SHEET IDENTIFICATION
V-108
SHEET 8 OF 10

SAFETY PAYS




PLAN
SCALE: 1" = 50'

NOTES:
1. For General Notes see sheet 1 of 10.
2. BM 1 (1917/2009) was used to survey this sheet.

GRAPHIC SCALE:
1" = 50'
50 0 50 100

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CONCORD, MASSACHUSETTS
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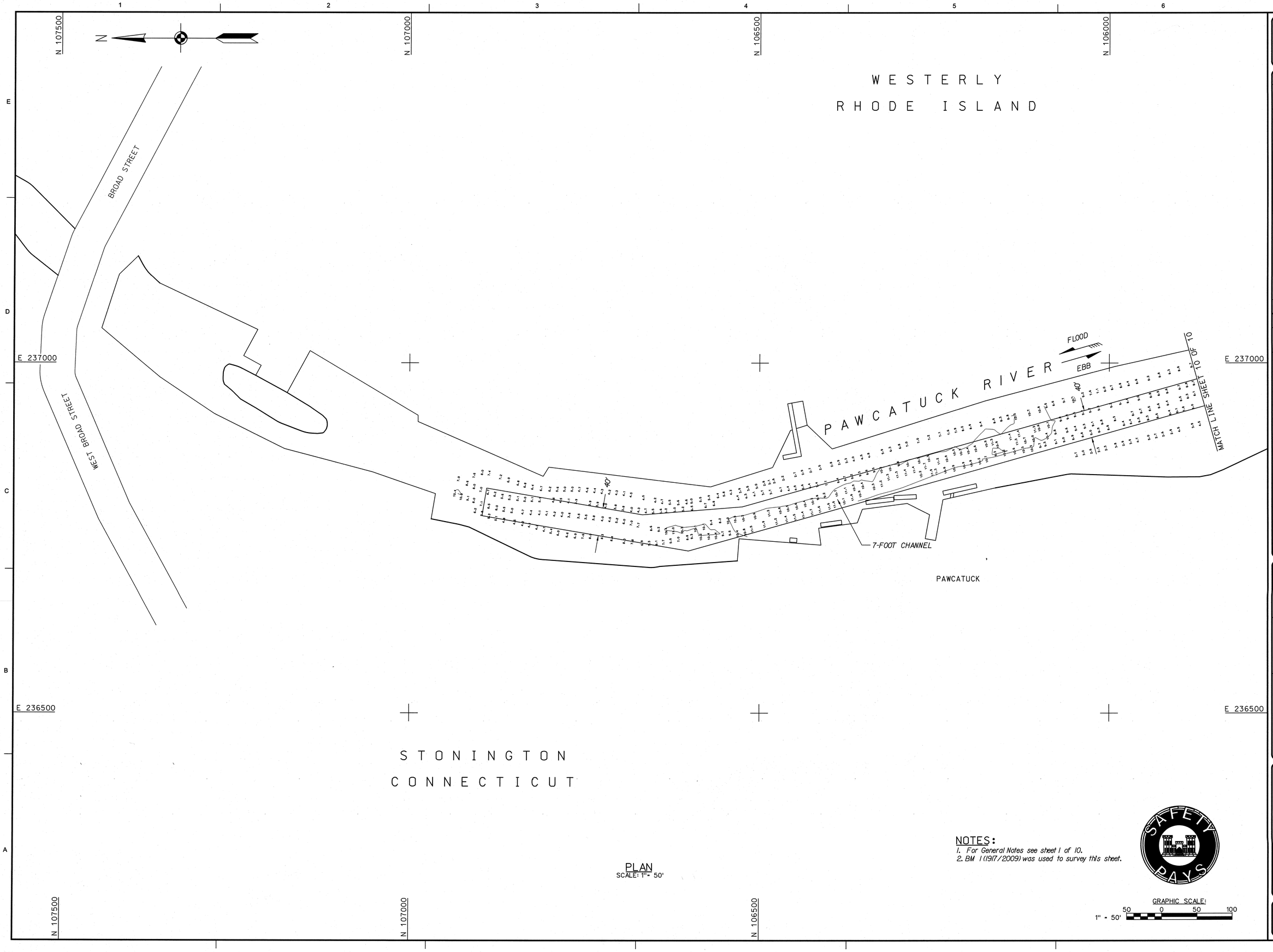
REVIEWED BY: Robert Schmidt
SUBMITTED BY: Jeffrey Tucker
Chief, Navigation Section
DATE: 5/24/2012
DWN BY: DOD
CKD BY: SWK
VSD: V3.0
DESIGN FILE: PAWNSF1.DGN
PLOT SCALE: 1" = 50'
PLOT DATE: 4/30/2012
DRAWING CODE: PK 611
SIZE: ANSI F
FILE NAME: PAWN1V109.SS9

PAWCATUCK RIVER
STONINGTON, CONNECTICUT AND
WESTERLY, RHODE ISLAND
CONDITION SURVEY

7 AND 10-FOOT CHANNELS

SHEET IDENTIFICATION
V-109
SHEET 9 OF 10




PLAN
SCALE: 1" = 50'

NOTES:
1. For General Notes see sheet 1 of 10.
2. BM 1 (1917/2009) was used to survey this sheet.

GRAPHIC SCALE:
1" = 50'
50 0 50 100

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

REVIEWED BY: Asst. Chief, Survey Section
SUBMITTED BY: Chief, Survey Section
DATE: 5/31/2012
DWN BY: SWK
CKD BY: VJG
DESIGN FILE: PAWCATUCK.dgn
PLOT SCALE: 1" = 50'
PLOT DATE: 4/20/2012
DRAWING CODE: PK 611
SIZE: ANSI F
FILE NAME: PAWCATUCK10.S10

PAWCATUCK RIVER
STONINGTON, CONNECTICUT AND WESTERLY, RHODE ISLAND
CONDITION SURVEY

7 AND 10-FOOT CHANNELS

SHEET IDENTIFICATION
V-110
SHEET 10 OF 10

SAFETY PAYS

Scanned May 2012