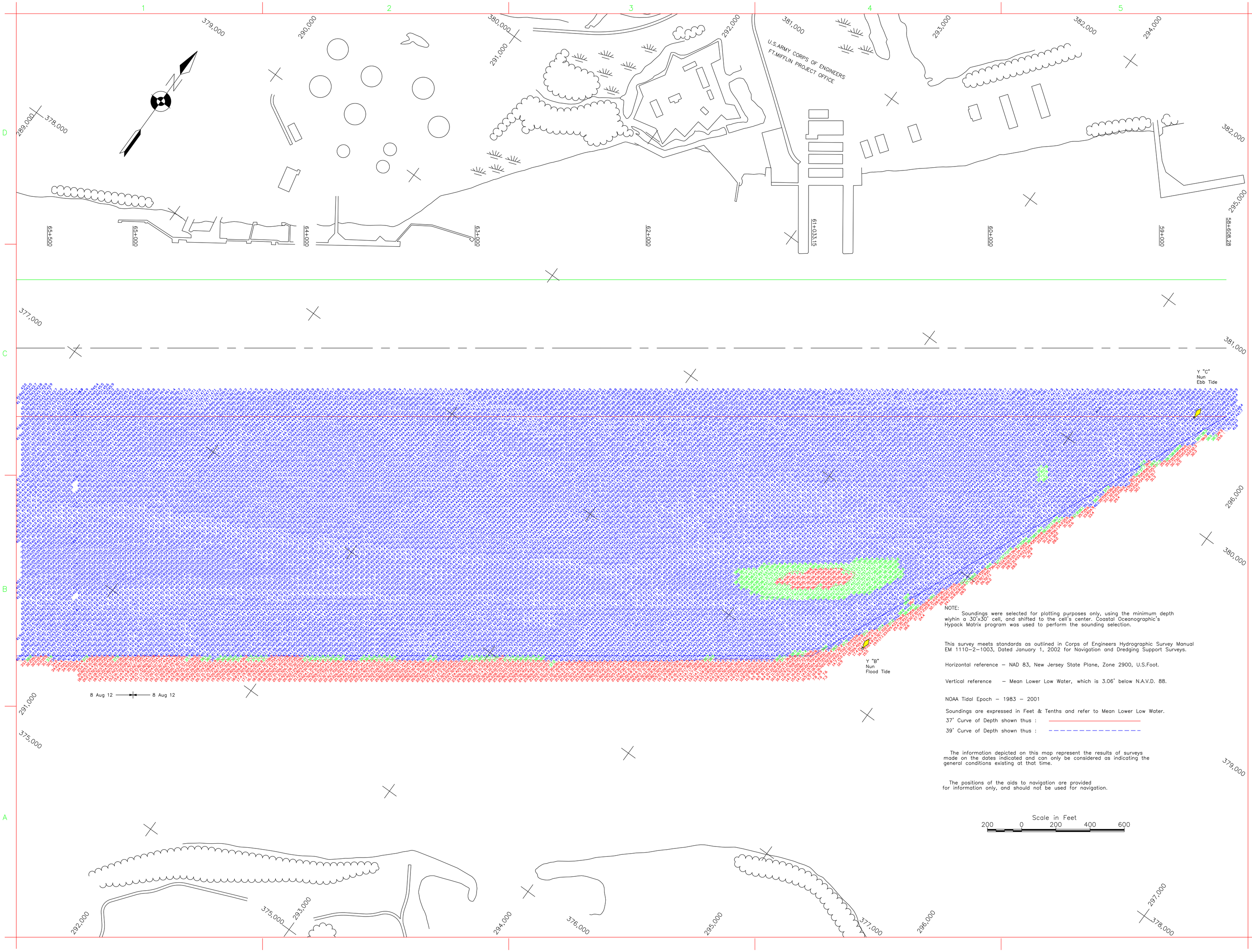


NOTE:

Soundings were selected for plotting purposes only, using the minimum depth wiyhin a 30'x30' cell, and shifted to the cell's center. Coastal Oceanographic's Hypack Matrix program was used to perform the sounding selection.

This survey meets standards as outlined in Corps of Engineers Hydrographic Survey Manual EM 1110-2-1003, Dated January 1, 2002 for Navigation and Dredging Support Surveys.

Horizontal reference – NAD 83, New Jersey State Plane, Zone 2900, U.S.Foot.

Vertical reference – Mean Lower Low Water, which is 3.06' below N.A.V.D. 88.

NOAA Tidal Epoch – 1983 – 2001

Soundings are expressed in Feet & Tenths and refer to Mean Lower Low Water.

37' Curve of Depth shown thus :

39' Curve of Depth shown thus :

The information depicted on this map represent the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

The positions of the aids to navigation are provided for information only, and should not be used for navigation.

Scale in Feet

200 0 200 400 600

US Army Corps of Engineers
Philadelphia District

Mark	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA
CORPS OF ENGINEERS
PHILADELPHIA, PENNSYLVANIA

TRACED BY J.Groch	PLOTTED BY W.Miller	DRAWING NO. 63488	
SURVEYED BY J.Gray	DATE SURVEYED As Shown	APPROVED	

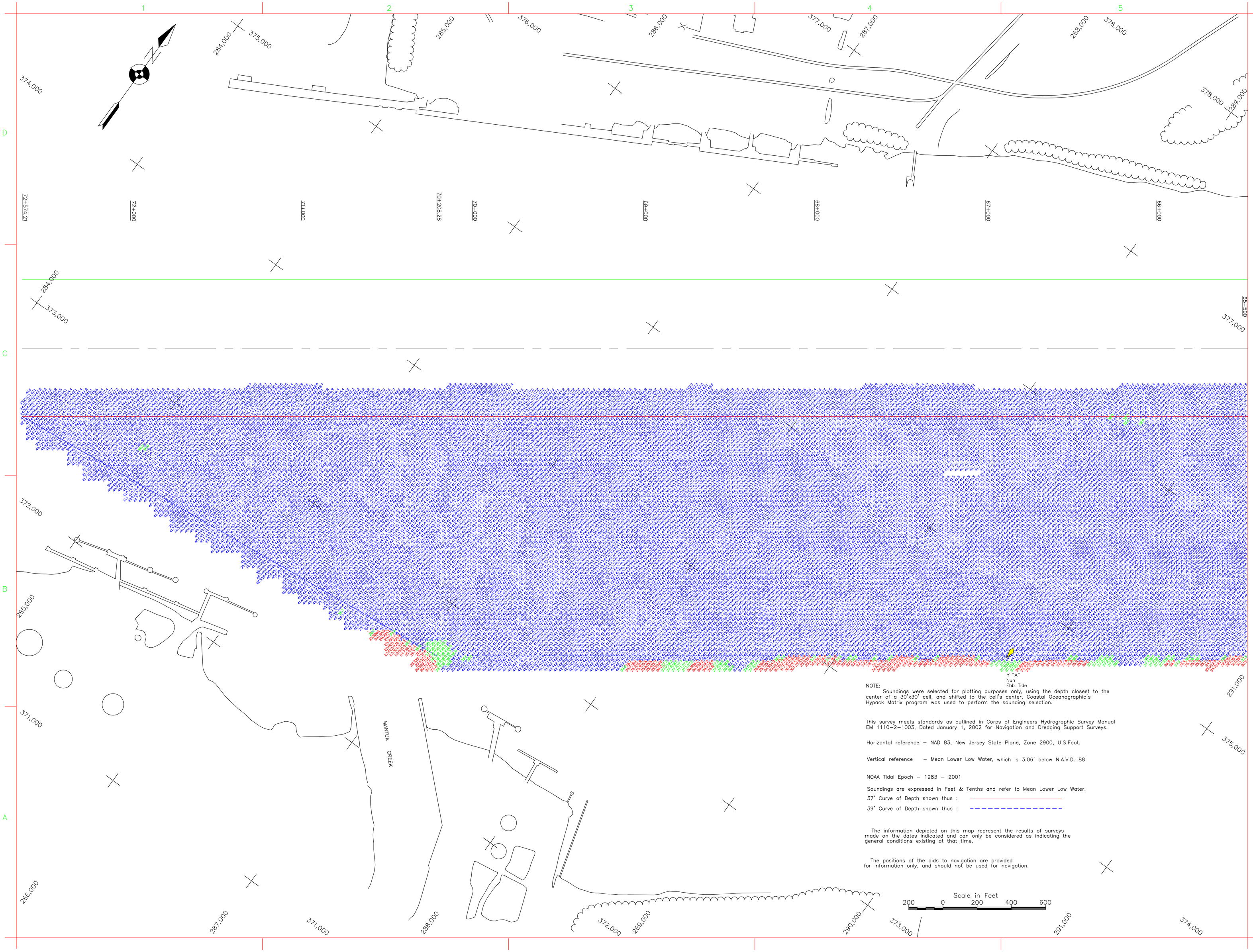
Designed by: | Date: | Rev.
Dwn by: | Ckd by: | IFB W912BU1-
Reviewed by: | Quadrangle Name:
Submitted by: | File name: | Plot date: 21 Aug 12 | Plot scale: 1in to 200 ft
Chief, Arch. Branch

DELAWARE RIVER
PHILADELPHIA TO THE SEA
EXAMINATION

MANTUA CREEK ANCHORAGE
STA.58+608.28 TO STA.65+500

Sheet reference number:

Sheet 1 of 2



NOTE:
Soundings were selected for plotting purposes only, using the depth closest to the center of a 30'x30' cell, and shifted to the cell's center. Coastal Oceanographic's Hypack Matrix program was used to perform the sounding selection.

This survey meets standards as outlined in Corps of Engineers Hydrographic Survey Manual EM 1110-2-1003, Dated January 1, 2002 for Navigation and Dredging Support Surveys.

Horizontal reference – NAD 83, New Jersey State Plane, Zone 2900, U.S.Foot.

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US Army Corps of Engineers
Philadelphia District

Mark	Description	Date	Appr.
Mark	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA
CORPS OF ENGINEERS
PHILADELPHIA, PENNSYLVANIA

TRACED BY J.Grach
PLOTTED BY W.Miller
DRAWING NO. 63489
SURVEYED BY J.Gray
DATE SURVEYED 8 Aug 12
APPROVED
Chief, Survey Section

Designed by:
Dwn by:
Ckd by:
Reviewed by:
Submitted by:
Chief, Arch. Branch
Date:
FB: W912BU1-
Quadrangle Name:
File name:
Plot date: 21 Aug 12
Plot scale: 1in to 200 ft
Rev.

DELAWARE RIVER
PHILADELPHIA TO THE SEA
EXAMINATION
MANTUA CREEK ANCHORAGE
STA.65+500 TO STA.72+574.21

Sheet reference number:

Sheet 2 of 2