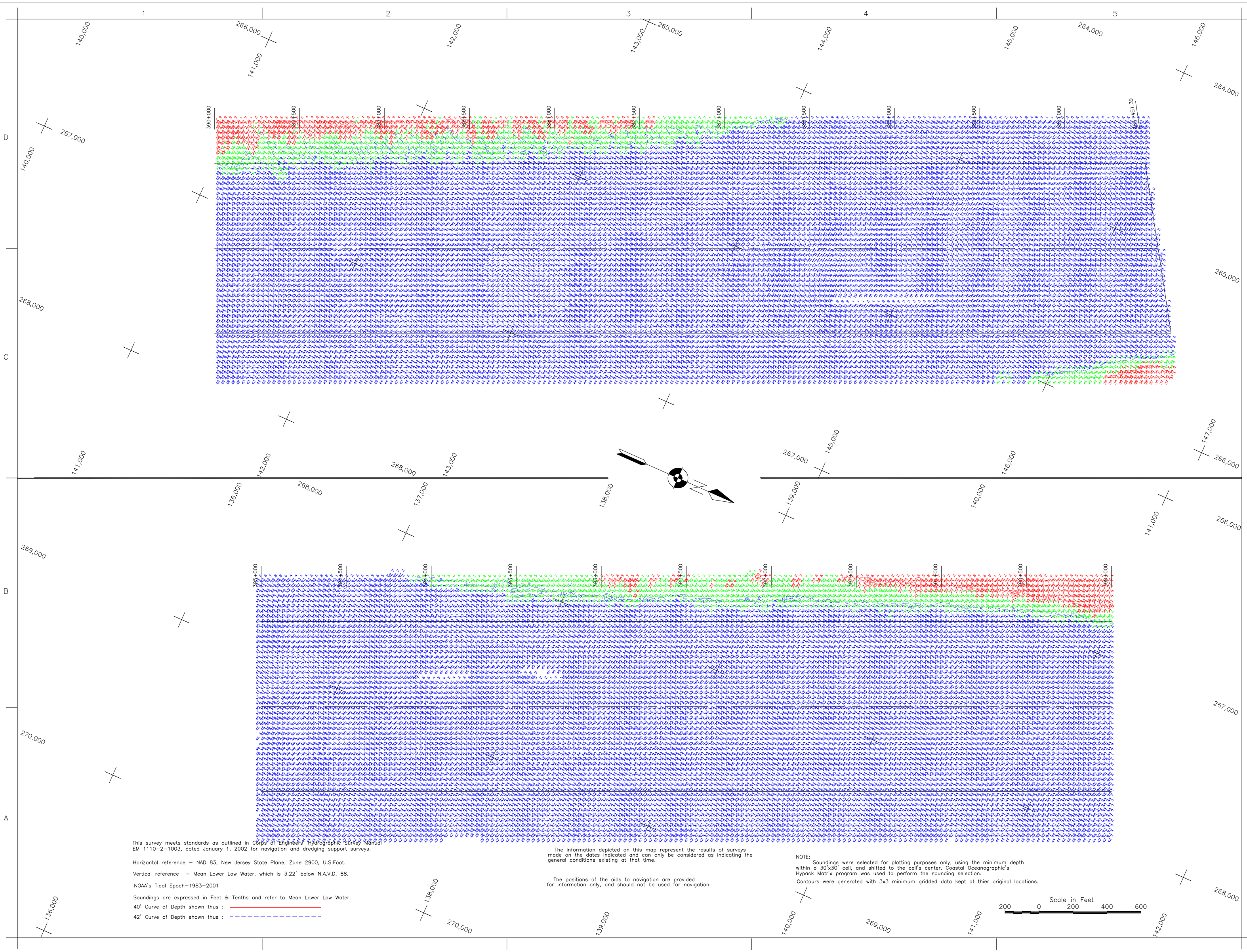


This survey meets standards as outlined in Corps of Engineers Hydrographic Survey Manual EM 1110-2-1003, dated January 1, 2002 for navigation and dredging support surveys.

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

Vertical reference – Mean Lower Low Water, which is 3.22' below N.A.V.D. 88.

NOAA's Tidal Epoch-1983-2001

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

40' Curve of Depth shown thus : ————————

42' 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.

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

Contours were generated with 3x3 minimum gridded data kept at thier original locations.

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

Designed by: | Dwn by: | Ckd by: | Reviewed by: | Submitted by: Chief, Arch. Branch | Date: | Rev.

IFB DACW61-

Drawing code:

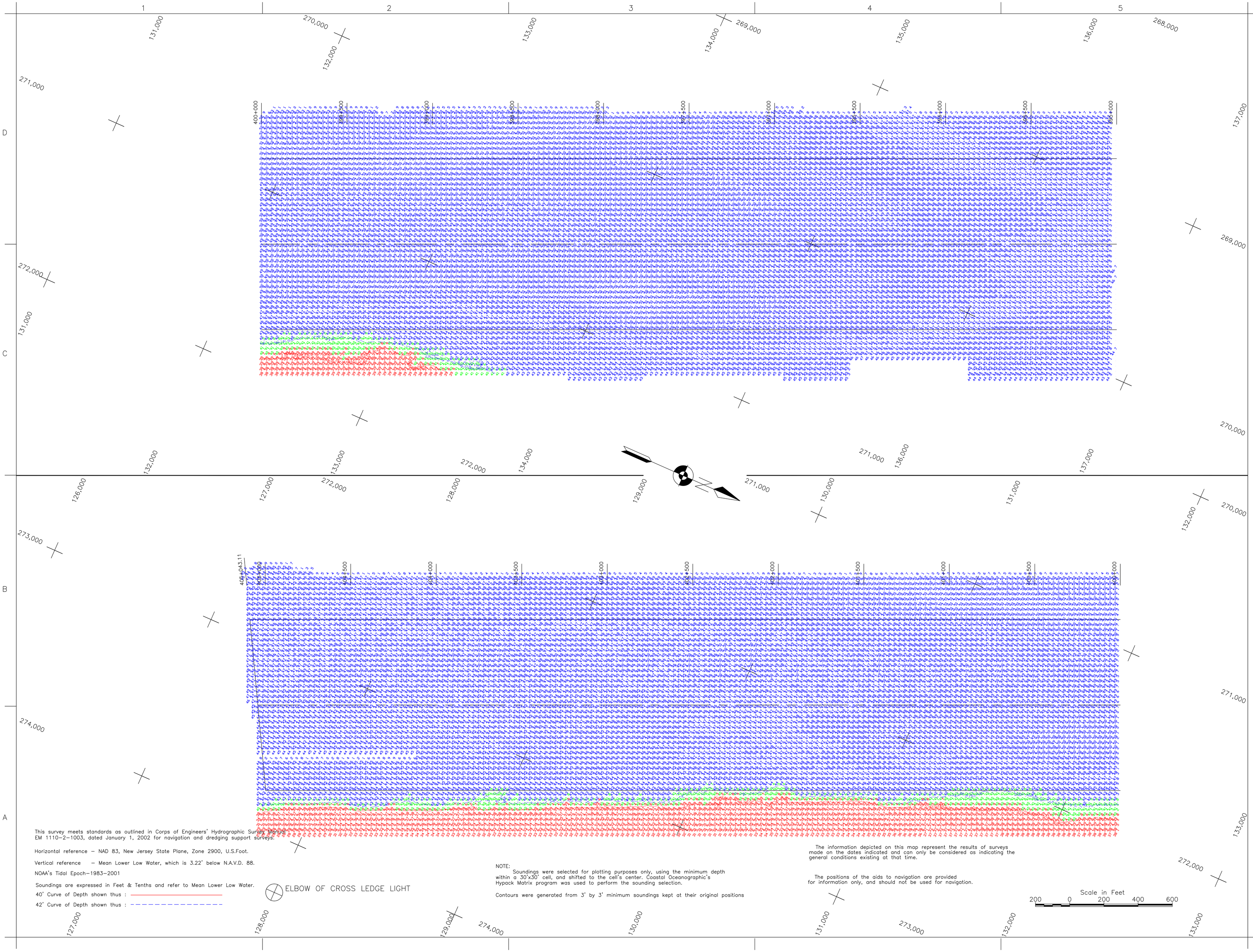
File name:
Plot date: 6 Aug 15
Plot scale: 1in to 200 ft

TRACED BY J.A.Grach | PLOTTED BY W.Miller | DRAWING NO. 65289
SURVEYED BY Shuman | DATE SURVEYED 15 Jul 15 | APPROVED — CHIEF, SURVEY BRANCH

DELAWARE RIVER
PHILADELPHIA TO THE SEA
ELBOW OF CROSS LEDGE RANGE
EXAMINATION
STA.384+451.39 TO STA.395+000

Sheet reference number:

Sheet 1 of 2



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42' Curve of Depth shown thus :

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Contours were generated from 3' by 3' minimum soundings kept at their original positions

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.

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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

Designed by:		Date:	Rev.
Dwn by:	Ckd by:	IFB DACW61–	
Reviewed by:		Drawing code:	
Submitted by:		File name: 6 Aug 15 Plot date: Plot scale: 1in to 200 ft	
Chief, Arch. Branch			

TRACED BY	PLOTTED BY	DRAWING NO.	65290
J.A.Grach	W.Miller	APPROVED	
SURVEYED BY	DATE SURVEYED		
Shuman	9 Jul 15	CHIEF, SURVEY BRANCH	

DELAWARE RIVER
PHILADELPHIA TO THE SEA
ELBOW OF CROSS LEDGE RANGE
EXAMINATION
STA.395+000 TO STA.405+043.11

Sheet reference number:

Sheet 2 of 2