This survey meets standards as outlined in CORPS of ENGINEERS hydrographic survey manual EM1110-2-1003, 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's Tidal Epoch–1983–2001

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

45' Curve of Depth shown thus :

46' 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.

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.A.Groch	PLOTTED BY M.Gaughan	DRAWING NO. 63191	
SURVEYED BY G.Griffith	DATE SURVEYED 01 Feb 12	APPROVED	

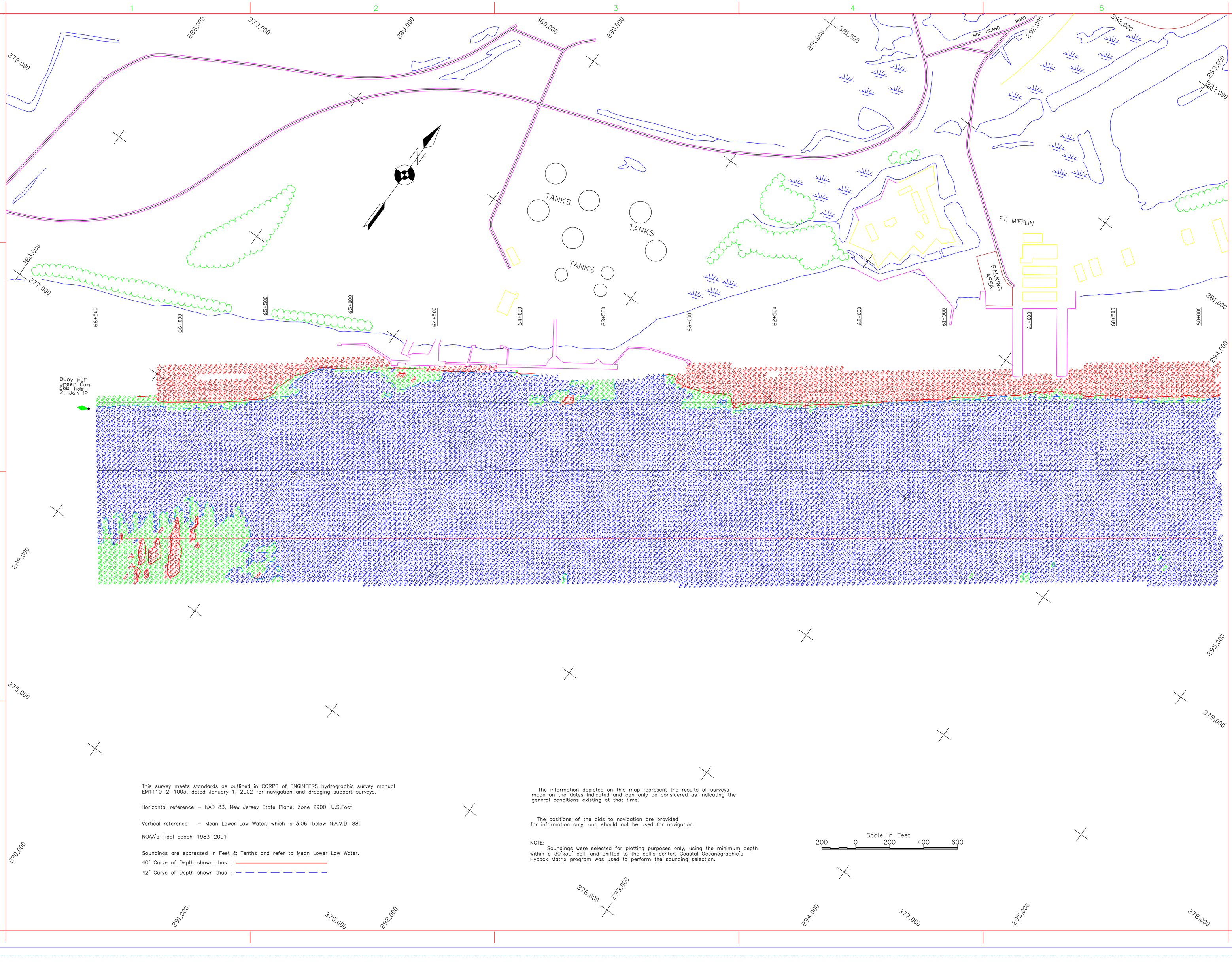
Designed by: | Dwn by: | Ckd by: | Reviewed by: | Submitted by: | Chief, Arch. Branch | Date: | IFB DACW61– | Rev.

Quadrangle Name: Phildalephia
File name: 02/09/2012
Plot scale: 1in to 200 ft

DELAWARE RIVER
PHILADELPHIA TO THE SEA
MIFFLIN RANGE
STA.55+373.78 TO STA.60+000
EXAMINATION

Sheet reference number:

Sheet 1 of 3



This survey meets standards as outlined in CORPS of ENGINEERS hydrographic survey manual EM1110-2-1003, 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'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.

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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.

US Army Corps of Engineers
Philadelphia District

Mark	Description	Date	Appr.

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

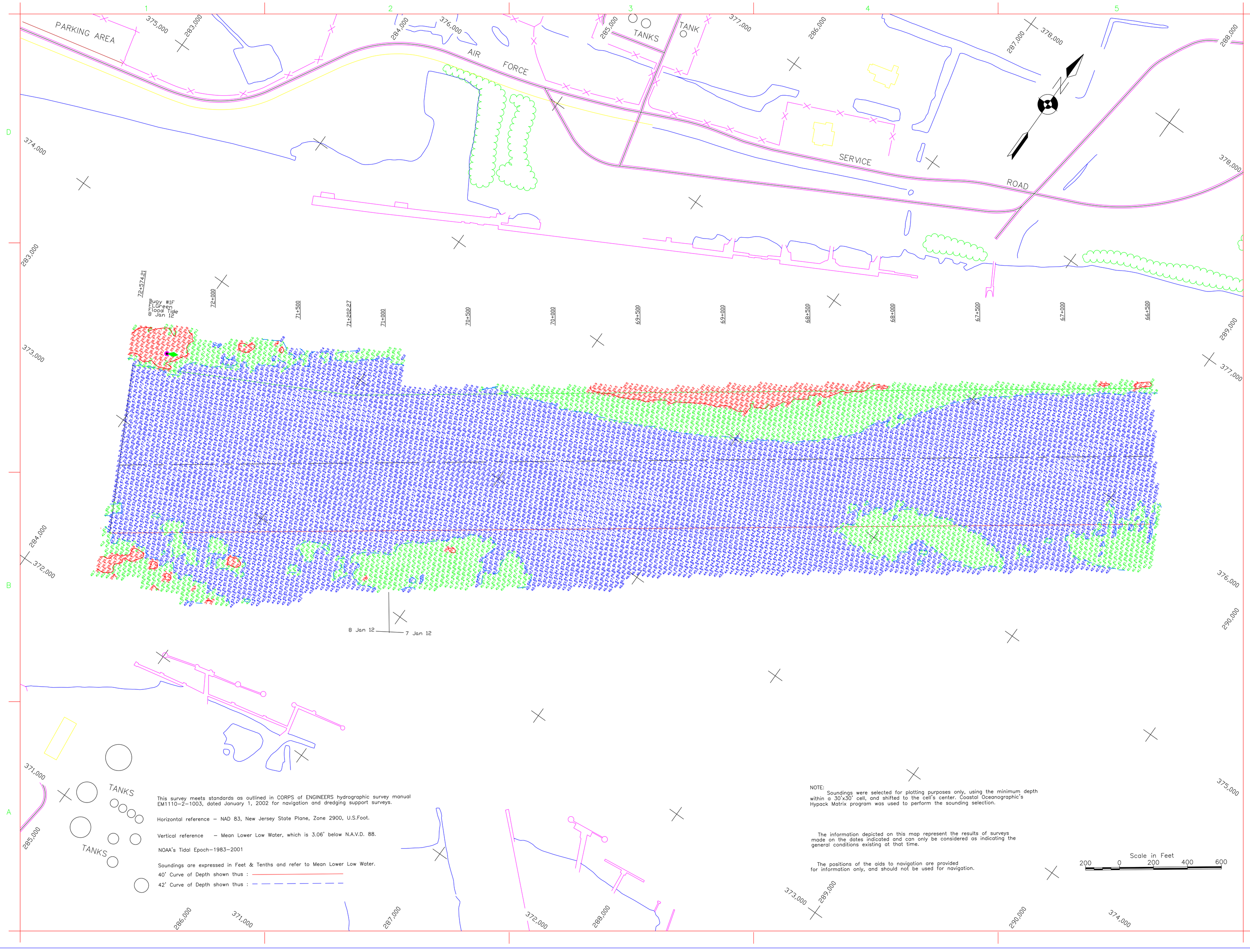
TRACED BY J.A.Groch	PLOTTED BY J.A.Caraballo	DRAWING NO. 63192	
SURVEYED BY G.Griffith	DATE SURVEYED 7 Feb 12	APPROVED	

Designed by: | Date: | Rev.
Dwn by: | Ckd by: | IFB W912BU-
Reviewed by: | Quadrangle Name: Philadelphia
Submitted by: | File name: 02/09/2012
Chief, Arch. Branch | Plot date: 1in to 200 ft | Plot scale:

DELAWARE RIVER
PHILADELPHIA TO THE SEA
MIFFLIN RANGE
STA.60+000 TO STA.66+500
EXAMINATION

Sheet reference number:

Sheet 2 of 3



This survey meets standards as outlined in CORPS of ENGINEERS hydrographic survey manual EM1110-2-1003, 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'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 :

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.

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.A.Groch	PLOTTED BY J.A.Caraballo	DRAWING NO. 63196	
SURVEYED BY G.Griffith	DATE SURVEYED As Shown	APPROVED	

Designed by: | Date: | Rev.
Dwn by: | Ckd by: | IFB W912BU-
Reviewed by: | Quadrangle Name: Woodbury
Submitted by: | File name: | Plot date: 02/10/2012
Chief, Arch. Branch | Plot scale: 1in to 200 ft

DELAWARE RIVER
PHILADELPHIA TO THE SEA
MIFFLIN RANGE
STA.66+500 TO STA.72+574.21
EXAMINATION

Sheet reference number:

Sheet 3 of 3