

1. THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL EM110-2-1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS.
2. HORIZONTAL REFERENCE - NAD 83, MARYLAND STATE PLANE, ZONE 1900, U.S. FOOT.
3. VERTICAL REFERENCE - MEAN LOWER LOW WATER, WHICH IS BELOW N.A.V.D. 88 BY THE FOLLOWING:  
 1.28' FROM STA. 101+000 TO STA. 101+025+000.  
 1.28' FROM STA. 101+028.77 TO STA. 101+050+000.
4. SOUNDINGS ARE EXPRESSED IN FEET & TENTHS AND REFER TO MEAN LOWER LOW WATER.
5. SOUNDINGS WERE SELECTED FOR PLOTTING PURPOSES ONLY, USING THE MINIMUM DEPTH WITHIN A 30'X30' CELL, SHIFTED TO THE CELL'S CENTER.
6. CONTOURS DEPICT ACTUAL LOCATION OF BATHYMETRY AND DO NOT NECESSARILY REFLECT PLOTTED SOUNDING LOCATIONS.
7. CONTOURS WERE GENERATED USING THE MINIMUM DEPTH WITHIN A 3' X 3' CELL.

8. HYDRACK, INC. SOFTWARE WAS USED TO PERFORM THE SOUNDING SELECTION AND CONTOUR GENERATION.
9. THE INFORMATION DEPICTED ON THIS MAP 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. THE POSITIONS OF THE AOTS TO NAVIGATION ARE PROVIDED FOR INFORMATION ONLY, AND SHOULD NOT BE USED FOR NAVIGATION.
11. THE LIMITS OF THE FEDERAL CHANNEL, DEPICT THE MOST CURRENT CHANNEL FRAMEWORK AVAILABLE WHICH CAN BE DOWNLOADED HERE: <http://navigation.usace.army.mil/survey/framework>
12. BASE MAPS AND AERIAL PHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND IS INTENDED FOR GENERAL INFORMATION PURPOSES ONLY. THE ACCURACY OF THE DATA IS NOT GUARANTEED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

3S1 CURVE OF DEPTH SHOWN THUS: 3S1  
 3S2 CURVE OF DEPTH SHOWN THUS: 3S2

Scale in Feet  
 0 200 400 600

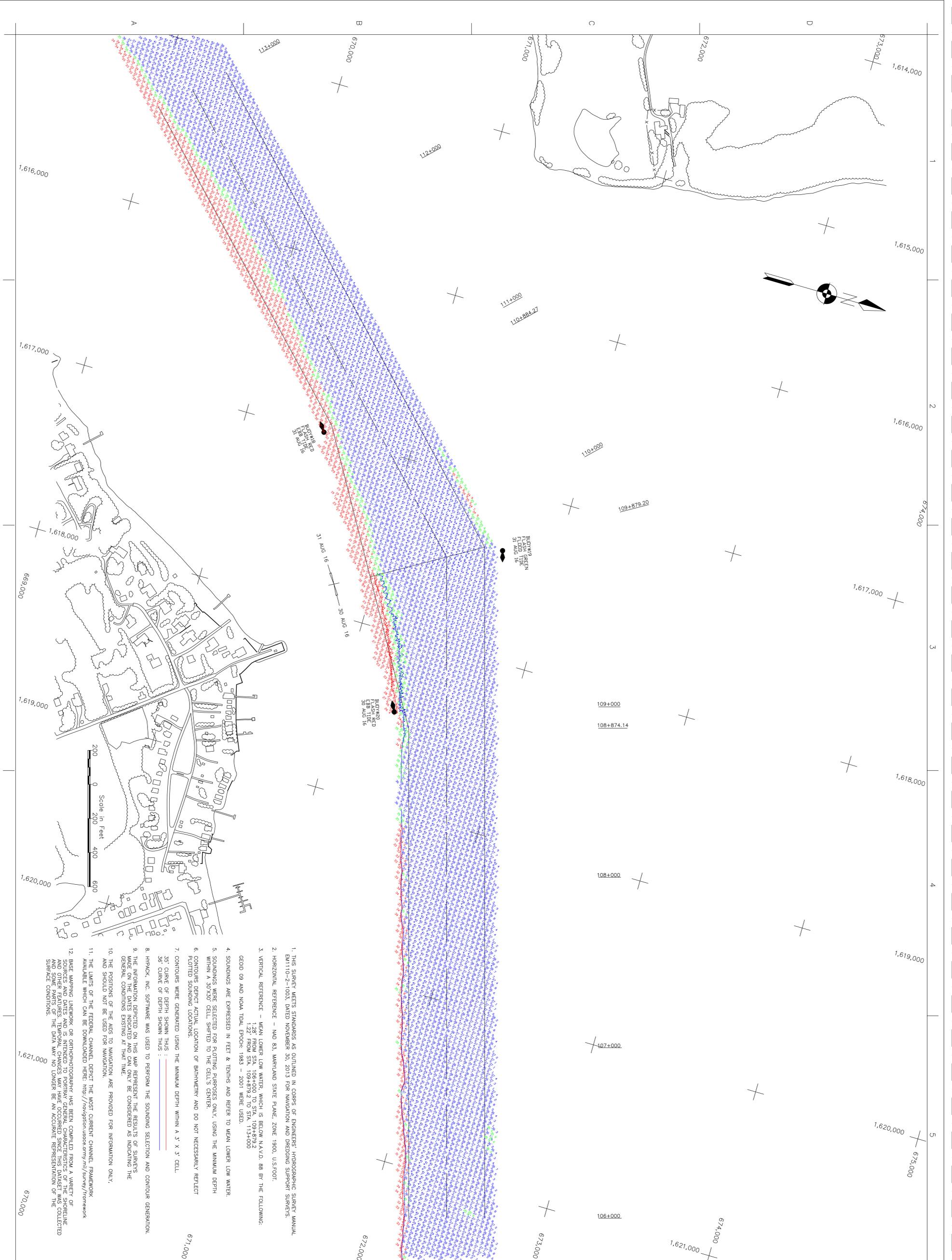
Sheet reference number:  
 Sheet 1 of 12

CHESAPEAKE & DELAWARE CANAL  
 CHESAPEAKE BAY APPROACH CHANNEL  
 EXAMINATION  
 W-2, OLDFIELD PT., TOWN PT. RANGES  
 STA.99+000 TO STA.106+000

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA CORPS OF ENGINEERS PHILADELPHIA, PENNSYLVANIA		Designed by:	Date:	Rev.
TRACED BY J.A.Groch	PLOTTED BY M.Gaughan	Drawn by:	Ckd by:	IFB DACW61-
SURVEYED BY Shurman	DATE SURVEYED 30 Aug 16	Reviewed by:	Submitted by:	Drawing code:
		Chief, Arch. Branch	Chief, Arch. Branch	File name: Plot date: 10/27/2016 Plot scale: 1in to 200 ft

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.





1. THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL PART 1110-2-1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SURVEY SURVEYS.
2. HORIZONTAL REFERENCE - NAD 83 MARYLAND STATE PLANE, ZONE 1900, U.S. FOOT.
3. VERTICAL REFERENCE - MEAN LOWER LOW WATER, WHICH IS BELOW M.A.Y.D. 88 BY THE FOLLOWING:  
 1.28' FROM STA. 106+000 TO STA. 109+879.2  
 1.22' FROM STA. 109+879.2 TO STA. 113+000  
 GEOD 09 AND NOAA TIDE EPOCH: 1983 - 2001 WERE USED.
4. SOUNDINGS ARE EXPRESSED IN FEET & TENTHS AND REFER TO MEAN LOWER LOW WATER.
5. SOUNDINGS WERE SELECTED FOR PLOTTING PURPOSES ONLY, USING THE MINIMUM DEPTH WITHIN A 30'X30' CELL, SHIFTED TO THE CELL'S CENTER.
6. CONTOURS DEPICT ACTUAL LOCATION OF BATHYMETRY AND DO NOT NECESSARILY REFLECT PLOTTED SOUNDING LOCATIONS.
7. CONTOURS WERE GENERATED USING THE MINIMUM DEPTH WITHIN A 3' X 3' CELL.  
 35' CURVE OF DEPTH SHOWN THUS: —  
 36' CURVE OF DEPTH SHOWN THUS: —
8. HYDRAK, INC. SOFTWARE WAS USED TO PERFORM THE SOUNDING SELECTION AND CONTOUR GENERATION.
9. THE INFORMATION DEPICTED ON THIS MAP 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. THE POSITIONS OF THE AOS TO NAVIGATION ARE PROVIDED FOR INFORMATION ONLY, AND SHOULD NOT BE USED FOR NAVIGATION.
11. THE LIMITS OF THE FEDERAL CHANNEL DEFICIT THE MOST CURRENT CHANNEL FRAMEWORK AVAILABLE WHICH CAN BE DOWNLOADED HERE: <http://navigation.usace.army.mil/survey/framework>
12. BASE MAPPING LITERATURE OR AERIAL PHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND IS SUBJECT TO CHANGE. TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATASET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

Sheet  
reference  
numbers:  
Sheet 2 of 12

CHESAPEAKE & DELAWARE CANAL  
CHESAPEAKE BAY APPROACH CHANNEL  
EXAMINATION  
TOWN POINT AND ARNOLD POINT RANGES  
STA.106+000 TO STA.113+000

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA DISTRICT PHILADELPHIA, PENNSYLVANIA		Designed by:	Date:	Rev.
TRACED BY J.A.Groch	PLOTTED BY M.Gaughan	Drawn by:	Ckd by:	IFB DACW61-
SURVEYED BY Shuman	DATE SURVEYED as shown	Reviewed by:	Drawing code:	
		Submitted by:	File name:	Plot date: 10/27/2016
		Chief, Arch. Branch	Plot scale: 1in to 200 ft	

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

