1. THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL EM1110–2–1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS.

2. HORIZONTAL REFERENCE – NAD 83, PENNSYLVANIA SOUTH STATE PLANE, ZONE 3702, U.S.FOOT.

3. VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 3.06' BELOW N.A.V.D. 88. GEOID 09 AND NOAA TIDAL 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.
   33' CURVE OF DEPTH SHOWN THUS : ————————

8. HYPACK, INC. SOFTWARE WAS USED TO PERFORM THE SOUNDING SELECTION AND CONTOUR GENERATION.

9. 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.

10. THE POSITIONS OF THE AIDS 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 MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES. 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.

RANGE 1
RANGE2
RANGE 3
RANGE 4
RANGE 5
RANGE 6

RG "RB"
Junction
Ebb Tide

Hog Island Rd
7th St W
8th St W

SCALE IN FEET
200 0 200 400 600

US Army Corps of Engineers
Philadelphia District

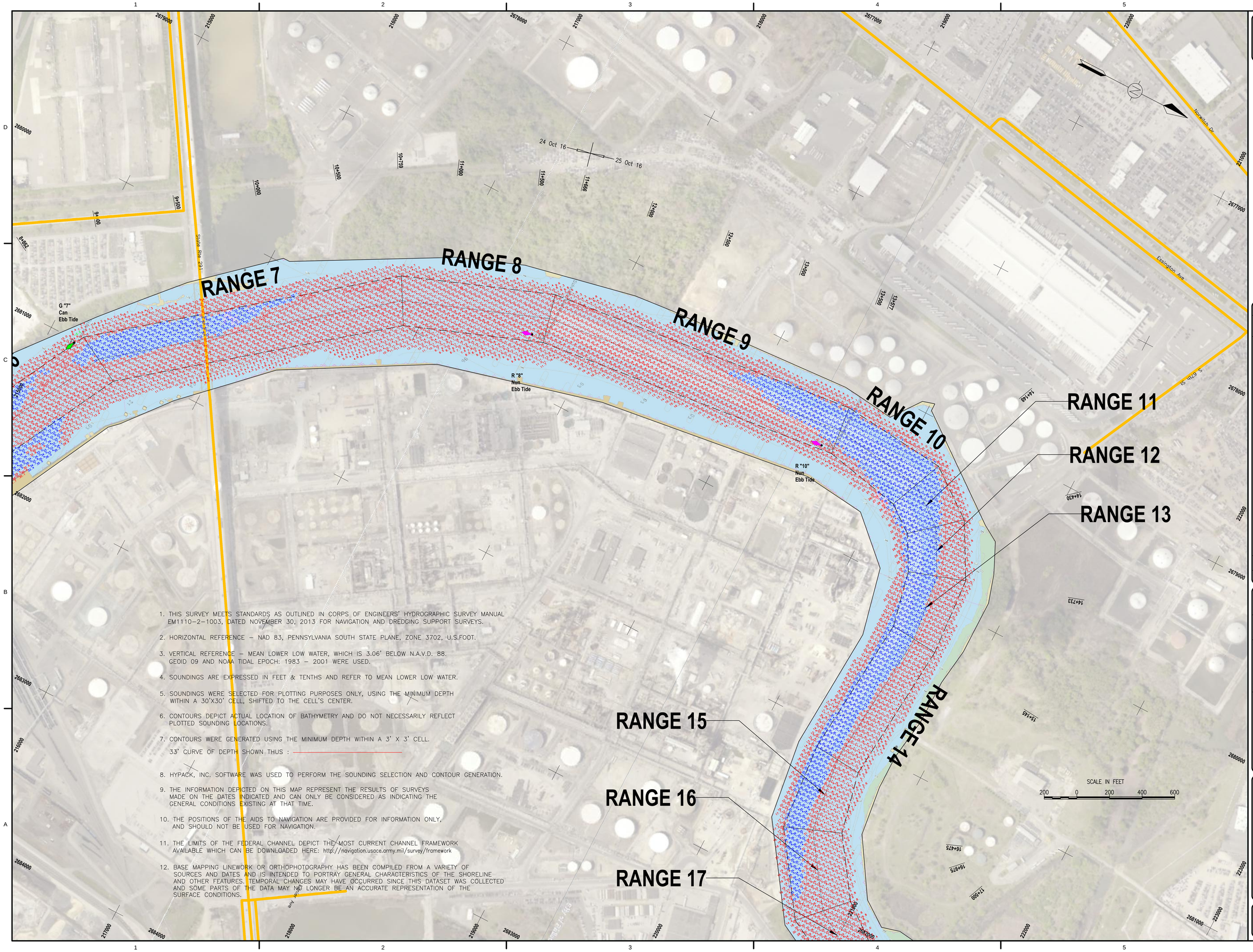
MARK	ACTION	DESCRIPTION	DATE	BY

PROCESSED BY: M.Gaughan	CKD BY:	PLOT DATE: 9 Dec 16	REVISION: REV
DWN BY: M.Gaughan		DRAWING NO: CS-XXXXXX	
REVIEWED BY:		APPROVED BY:	
SURVEY DATE: 25 Oct 16	VESSEL: Dauntless	PLOTTED BY: W.Miller	
DWG SCALE: 1:2000	FILE NAME:		

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT
PHILADELPHIA, PA 19107-3390
www.nap.usace.army.mil

SCHUYLKILL RIVER
RANGE 1 TO RANGE 7
STATION 0+000 TO 8+862

SHEET NUMBER
V-100



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7. CONTOURS WERE GENERATED USING THE MINIMUM DEPTH WITHIN A 3' X 3' CELL.
   33' CURVE OF DEPTH SHOWN THUS :
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US Army Corps of Engineers Philadelphia District

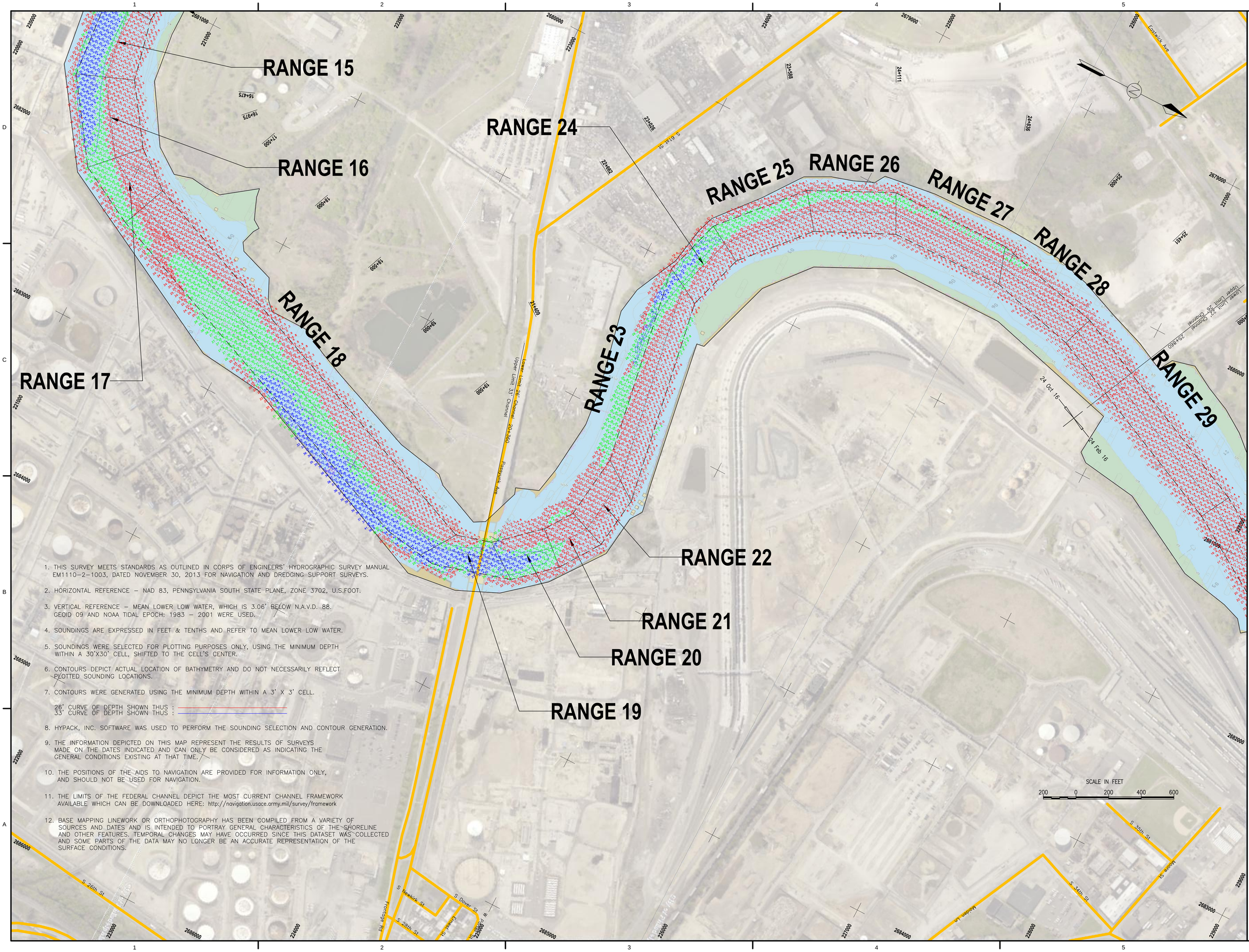
MARK	ACTION	DESCRIPTION	DATE	BY

PLOT DATE: 9 Dec 16
REVISION: REV
CONTRACT NUMBER: IFB-W9128U-XXXXXXXXXX
APPROVED BY:
PLOTTED BY: W.Miller
PROCESSED BY: M.Gaughan
DWN BY: WHM
CKD BY:
REVIEWED BY:
SURVEY DATE: As Shown
VESSEL: Dauntless
DWG SCALE: 1"=200'
FILE NAME:

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT
PHILADELPHIA, PA 19107-3390
www.nap.usace.army.mil

SCHUYLKILL RIVER
RANGE 6 TO RANGE 17
STATION 8+862 TO 16+975

SHEET NUMBER
V-101



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7. CONTOURS WERE GENERATED USING THE MINIMUM DEPTH WITHIN A 3' X 3' CELL.

26' CURVE OF DEPTH SHOWN THUS : ———
33' CURVE OF DEPTH SHOWN THUS : ———

8. HYPACK, INC. SOFTWARE WAS USED TO PERFORM THE SOUNDING SELECTION AND CONTOUR GENERATION.

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US Army Corps of Engineers
Philadelphia District

MARK	ACTION	DESCRIPTION	DATE	BY

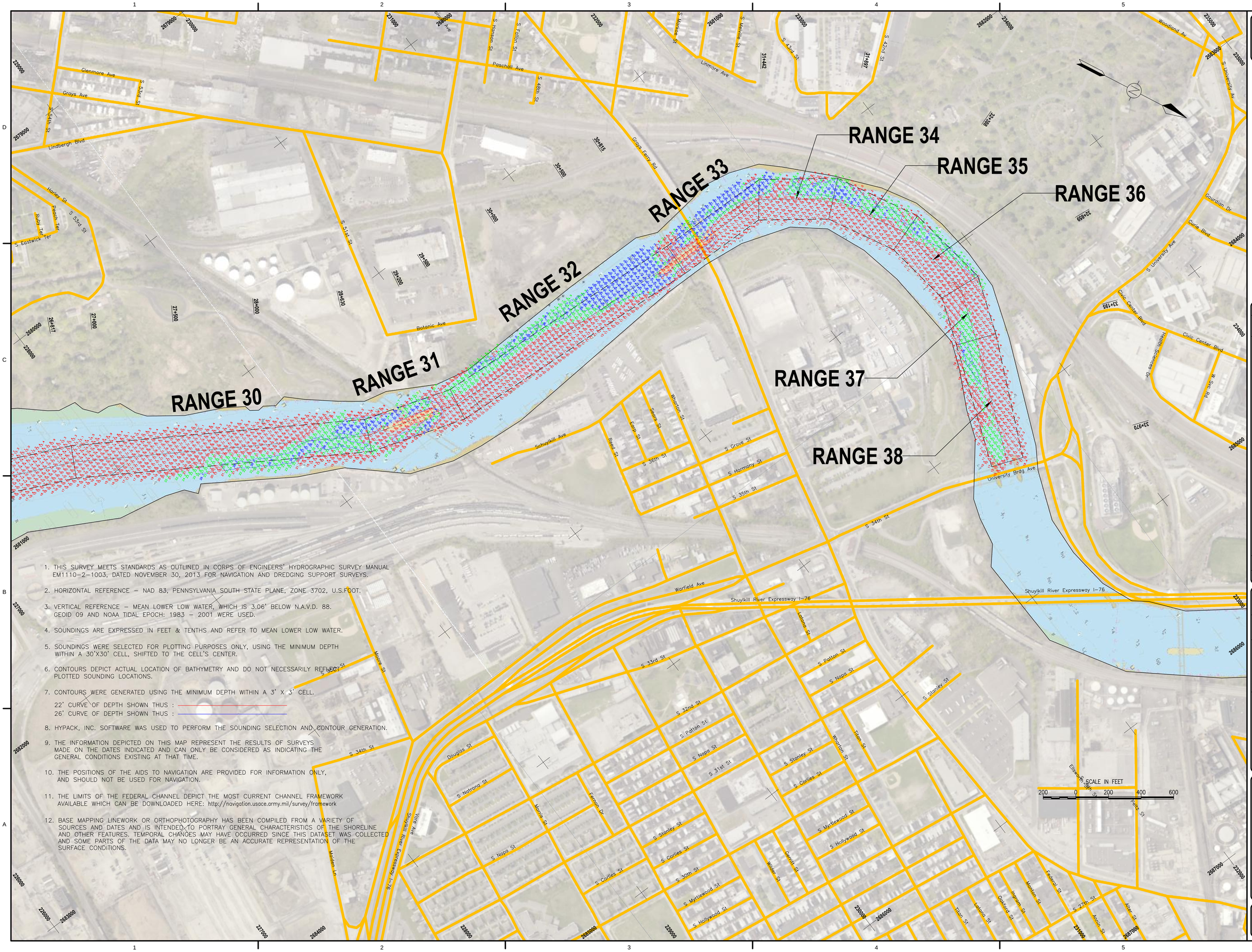
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT
PHILADELPHIA, PA 19107-3390
www.nap.usace.army.mil

PROCESSED BY:	M.Gaughan
DWN BY:	W.Miller
CKD BY:	
REVIEWED BY:	
SURVEY DATE:	VESSEL
As Shown	Dauntless
DWG SCALE: 1"=200'	FILE NAME:
PLOT DATE:	3 Dec 16
REVISION	REV
PROJECT NAME:	SCHUYLKILL RIVER
PROJECT NUMBER:	E3-W19-01-XXXXXXXXX
APPROVED BY:	
PLOTTED BY:	W.Miller

SCHUYLKILL RIVER

RANGE 17 TO RANGE 30
STATION 16+975 TO 25+451

SHEET NUMBER
V-102



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   22' CURVE OF DEPTH SHOWN THUS :
   26' CURVE OF DEPTH SHOWN THUS :

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US Army Corps of Engineers
Philadelphia District

MARK	ACTION	DESCRIPTION	DATE	BY

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT
PHILADELPHIA, PA 19107-3390
www.nap.usace.army.mil

PROCESSED BY: M.Gaughan	PLOT DATE: 17 May 18
DWN BY: WM	REVISION: REV
CKD BY: WM	FORMAT: 22x34(D) ANSI/ASME
REVIEWED BY:	APPROVED BY:
SURVEY DATE: 24 Feb 18	VESSEL: Discoveries
CNVS SCALE: 1:250	PLOTTED BY: W.Miller
	FILE NAME: 05SS4

SCHUYLKILL RIVER
RANGE 30 TO RANGE 38
STATION 25+451 TO 33+970

SHEET NUMBER
V-103