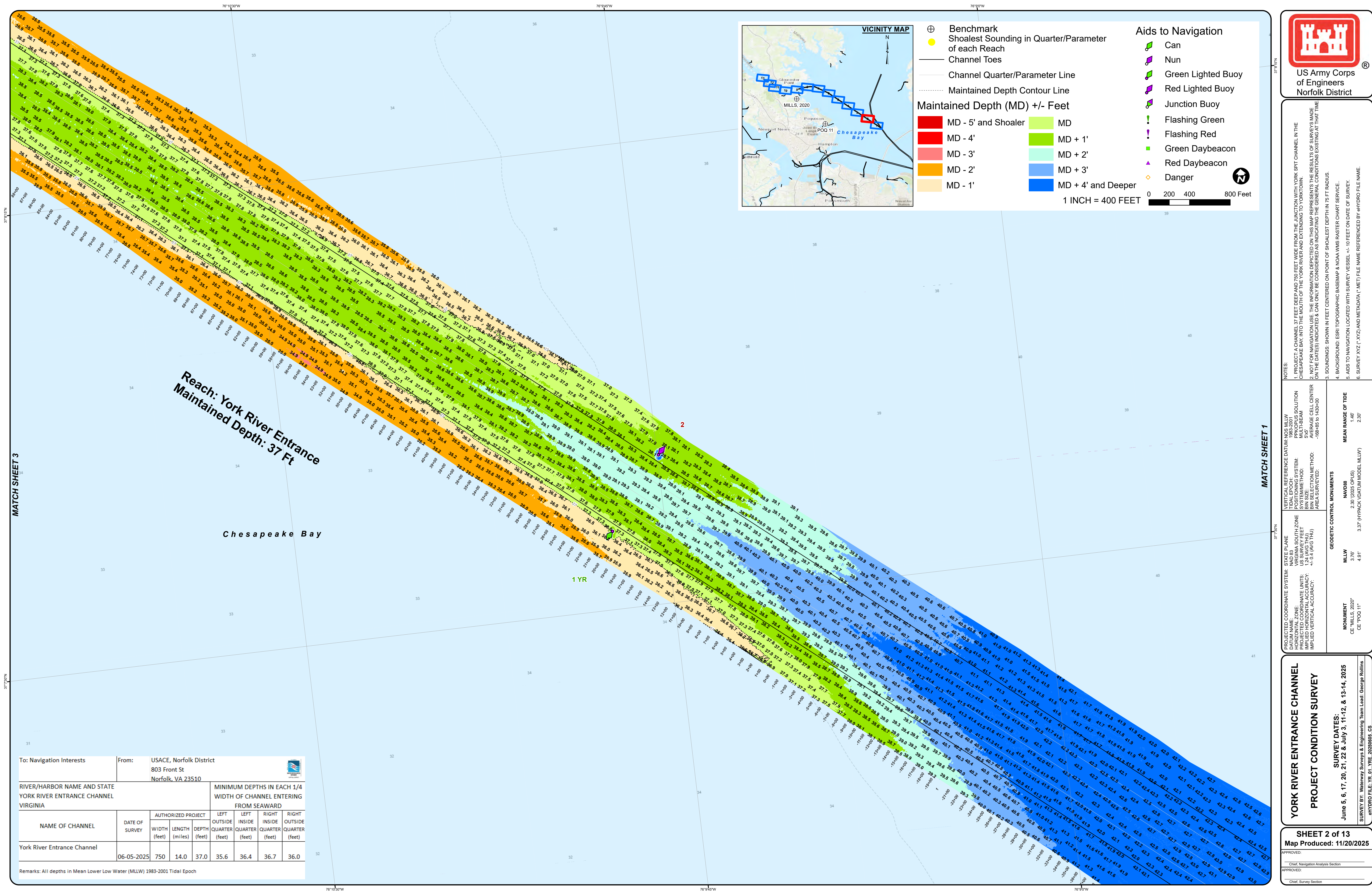
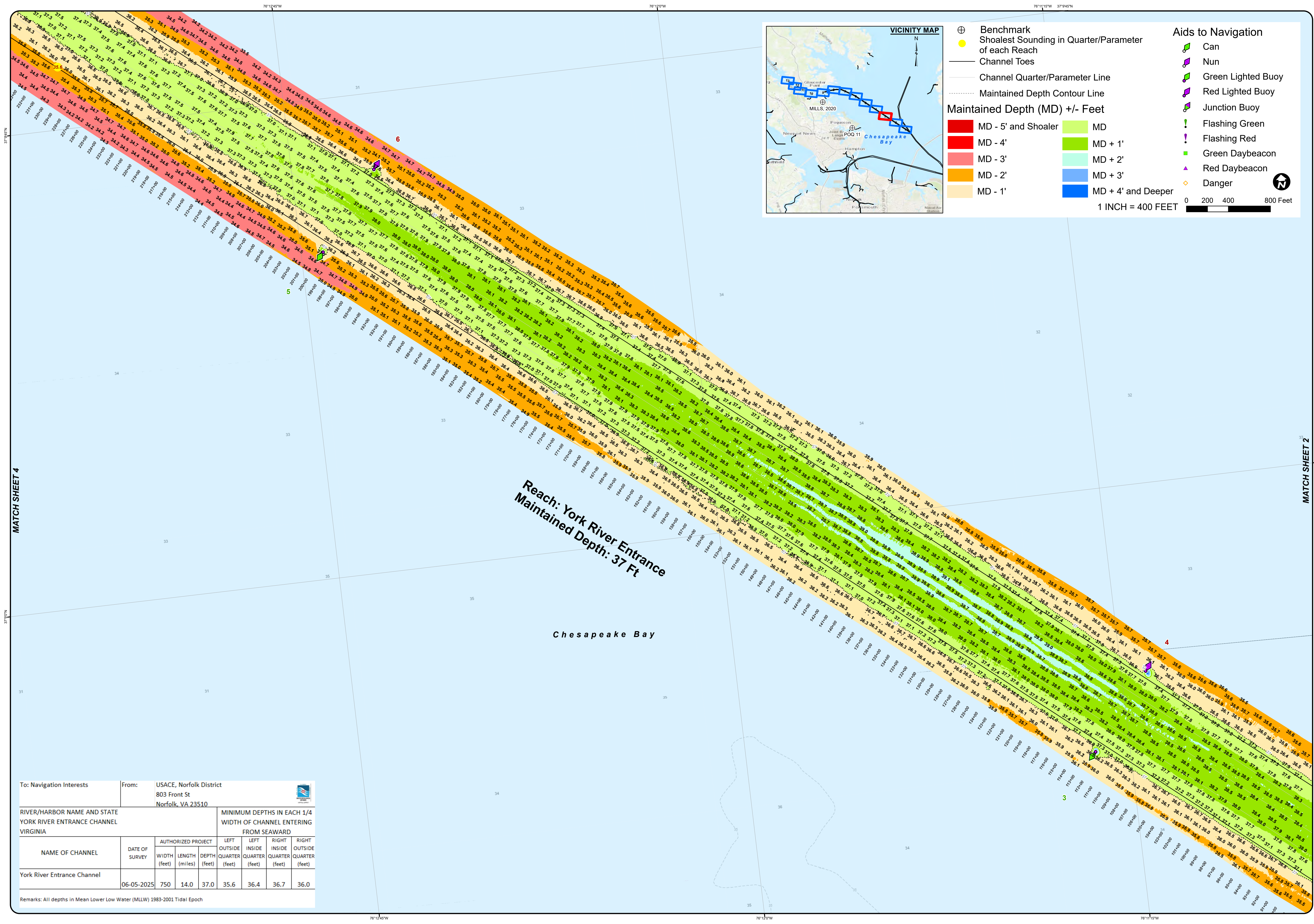






To: Navigation Interests		From: USACE, Norfolk District 803 Front St Norfolk, VA 23510						
RIVER/HARBOR NAME AND STATE YORK RIVER ENTRANCE CHANNEL VIRGINIA				MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD				
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
York River Entrance Channel	06-05-2025	750	14.0	37.0	35.6	36.4	36.7	36.0
Remarks: All depths in Mean Lower Low Water (MLLW) 1983-2001 Tidal Epoch								



US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT A CHANNEL 37 FEET DEEP AND 750 FEET WIDE FROM THE JUNCTION WITH YORK SPT CHANNEL IN THE CHESAPEAKE BAY INTO THE MOUTH OF THE YORK RIVER AND EXTENDING TO YORKTOWN.
2. NOT FOR NAVIGATION USE. THE INFORMATION DERIVED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
3. SOUNDINGS SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 75 FT RADIUS.
4. BACKGROUND: ESRI TOPOGRAPHIC BASEMAP & NOAA WMS RASTER CHART SERVICE.
5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.
6. SURVEY XYZ ("XYZ") AND METADATA ("MET") FILE NAME REFERENCED BY eHYDRO FILE NAME.

VERTICAL REFERENCE DATUM: NOS MLLW	PROPORTION SOLUTION
POSITIONING SYSTEM: MULTI-BEAM	525
BN SIZE	SECTION METHOD:
AREA SURVEYED:	-188465 to 1430+00

PROJECTED COORDINATE SYSTEM:	STATE PLANE
HORIZONTAL ZONE:	VIRGINIA SOUTH ZONE
US SURVEY FEET	124 (AVG THU)
IMPLIED HORIZONTAL ACCURACY:	47.0 (AVG THU)
IMPLIED VERTICAL ACCURACY:	

MONUMENT	CE MILLS 2020"
CE "POO 11"	

GEODETIC CONTROL MONUMENTS	NAVDB8
MEAN RANGE OF TIDE	1.48'
	2.30'

YORK RIVER ENTRANCE CHANNEL

PROJECT CONDITION SURVEY

SURVEY DATES:
June 5, 6, 17, 20, 21, 22 & July 3, 11-12, & 13-14, 2025

SURVEY BY: Waterway Surveys & Engineering Team Lead: George Rollins

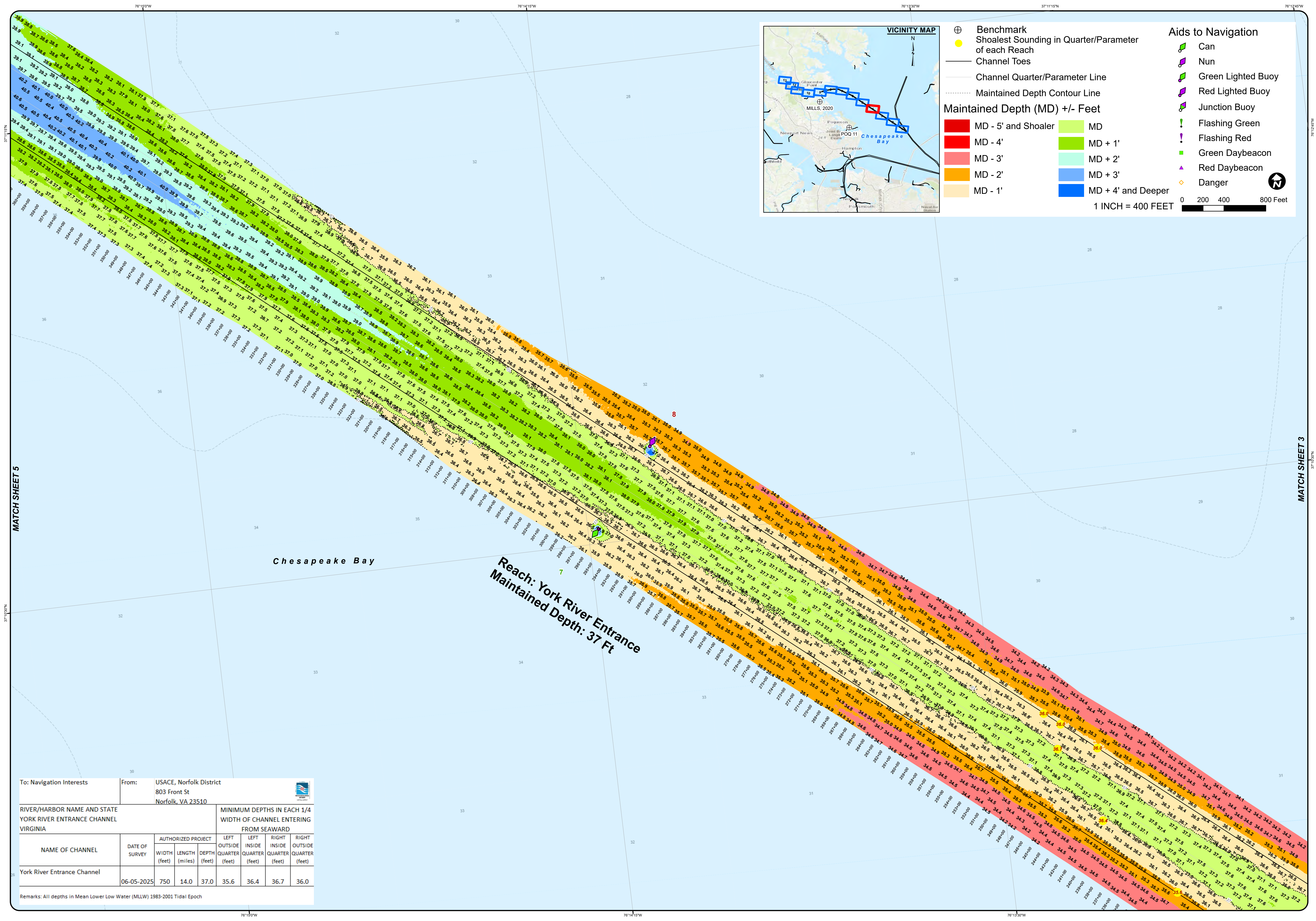
eHYDRO FILE: YR_01_YRE_20250605_CS

SHEET 3 of 13

Map Produced: 11/20/2025

APPROVED: _____
Chief, Navigation Analysis Section

APPROVED: _____
Chief, Survey Section



To: Navigation Interests		From: USACE, Norfolk District 803 Front St Norfolk, VA 23510						
RIVER/HARBOR NAME AND STATE YORK RIVER ENTRANCE CHANNEL VIRGINIA				MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD				
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)	(feet)	(feet)	(feet)	(feet)
York River Entrance Channel	06-05-2025	750	14.0	37.0	35.6	36.4	36.7	36.0
Remarks: All depths in Mean Lower Low Water (MLLW) 1983-2001 Tidal Epoch								



US Army Corps
of Engineers
Norfolk District

NOTES:

- PROJECT A CHANNEL 37 FEET DEEP AND 750 FEET WIDE FROM THE JUNCTION WITH YORK SPT CHANNEL IN THE CHESAPEAKE BAY INTO THE MOUTH OF THE YORK RIVER AND EXTENDING TO YORNTOWN.
- NOT FOR NAVIGATION USE. THE INFORMATION DERIVED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- SOUNDINGS SHOWN IN FEET CENTERED ON POINT OF SHALLEST DEPTH IN 75 FT RADIUS.
- BACKGROUND: ESRI TOPOGRAPHIC BASEMAP & NOAA WMS RASTER CHART SERVICE.
- AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.
- SURVEY XYZ (.XYZ) AND METADATA (.MET) FILE NAME REFERENCED BY eHYDRO FILE NAME.

VERTICAL REFERENCE DATUM: NOS MLLW		PRKOPUS SOLUTION	
POSITIONING SYSTEM: MULTI-BEAM		525'	
BIN SIZE: 124 (AVG THU)		AREA SURVEYED:	
IMPLIED HORIZONTAL ACCURACY:		-188465 ± 1430+00	

PROJECTED COORDINATE SYSTEM: STATE PLANE		VIRGINIA SOUTH ZONE	
HORIZONTAL DATUM: US SURVEY FEET		47.04 (AVG THU)	
IMPLIED HORIZONTAL ACCURACY:		47.04 (AVG THU)	

MONUMENT		CE MILLS, 2020"	
CE MILLS, 2020"		4.91"	

GEODETIC CONTROL MONUMENTS		NAVDS8	
2.30 (2025 PULS)		1.46"	
3.37 (HYPACK VDATUM MODEL MLLW)		2.30"	

MEAN RANGE OF TIDE		1.46"	
3.76"		2.30"	

YORK RIVER ENTRANCE CHANNEL

PROJECT CONDITION SURVEY

SURVEY DATES:
June 5, 6, 17, 20, 21, 22 & July 3, 11-12, & 13-14, 2025

SURVEY BY: Waterway Surveys & Engineering Team Lead: George Rollins
eHYDRO FILE: YR_01_YRE_20250605_CS

SHEET 4 of 13

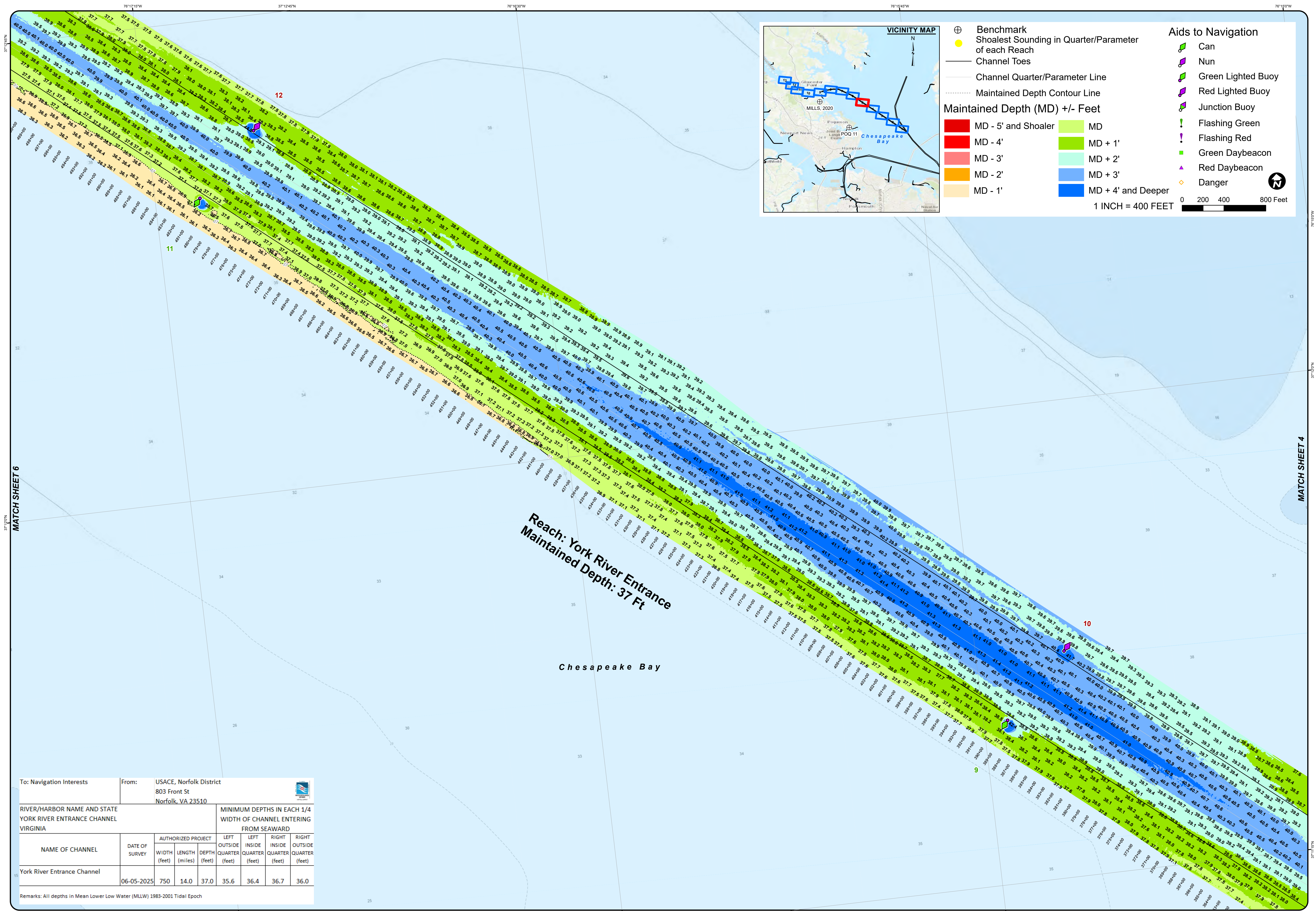
Map Produced: 11/20/2025

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Survey Section



MATCH SHEET 6

MATCH SHEET 4

To: Navigation Interests		From:		USACE, Norfolk District 803 Front St Norfolk, VA 23510				
RIVER/HARBOR NAME AND STATE YORK RIVER ENTRANCE CHANNEL VIRGINIA						MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD		
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
York River Entrance Channel	06-05-2025	750	14.0	37.0	35.6	36.4	36.7	36.0
Remarks: All depths in Mean Lower Low Water (MLLW) 1983-2001 Tidal Epoch								

US Army Corps
of Engineers
Norfolk District

NOTES:

1. PROJECT A CHANNEL 37 FEET DEEP AND 750 FEET WIDE FROM THE JUNCTION WITH YORK SPT CHANNEL IN THE CHESAPEAKE BAY INTO THE MOUTH OF THE YORK RIVER AND EXTENDING TO YORKTOWN.
2. NOT FOR NAVIGATION USE. THE INFORMATION DERIVED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
3. SOUNDINGS SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 75 FT RADIUS.
4. BACKGROUND: ESRI TOPOGRAPHIC BASEMAP & NOAA WMS RASTER CHART SERVICE.
5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.
6. SURVEY XYZ ("XYZ") AND METADATA ("MET") FILE NAME REFERENCED BY eHYDRO FILE NAME.

VERTICAL REFERENCE DATUM: NOS MLLW	PROPOSAL SOLUTION
POSITIONING SYSTEM: MULTI-BEAM	525'
BN SIZE: 500' X 500'	AREA SURVEYED:
MEAN RANGE OF TIDE	1.46'
2.30' (2025 OPLS)	2.30'
3.37' (HYPACK VDATUM MODEL MLLW)	

PROJECTED COORDINATE SYSTEM: STATE PLANE
NAD83
VIRGINIA SOUTH ZONE
US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: 1/24 (AVG THU)
IMPLIED VERTICAL ACCURACY: 47.04 (AVG THU)

MONUMENT	CE MILLS 2020"
MLLW	3.76'
MEAN RANGE OF TIDE	4.91'

YORK RIVER ENTRANCE CHANNEL
PROJECT CONDITION SURVEY

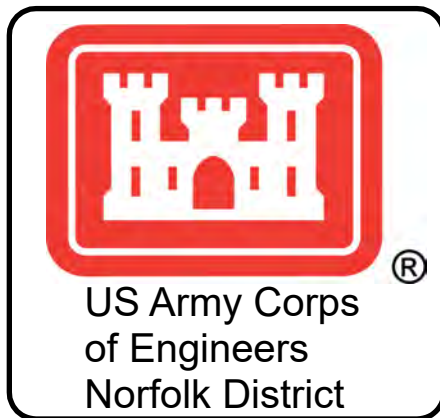
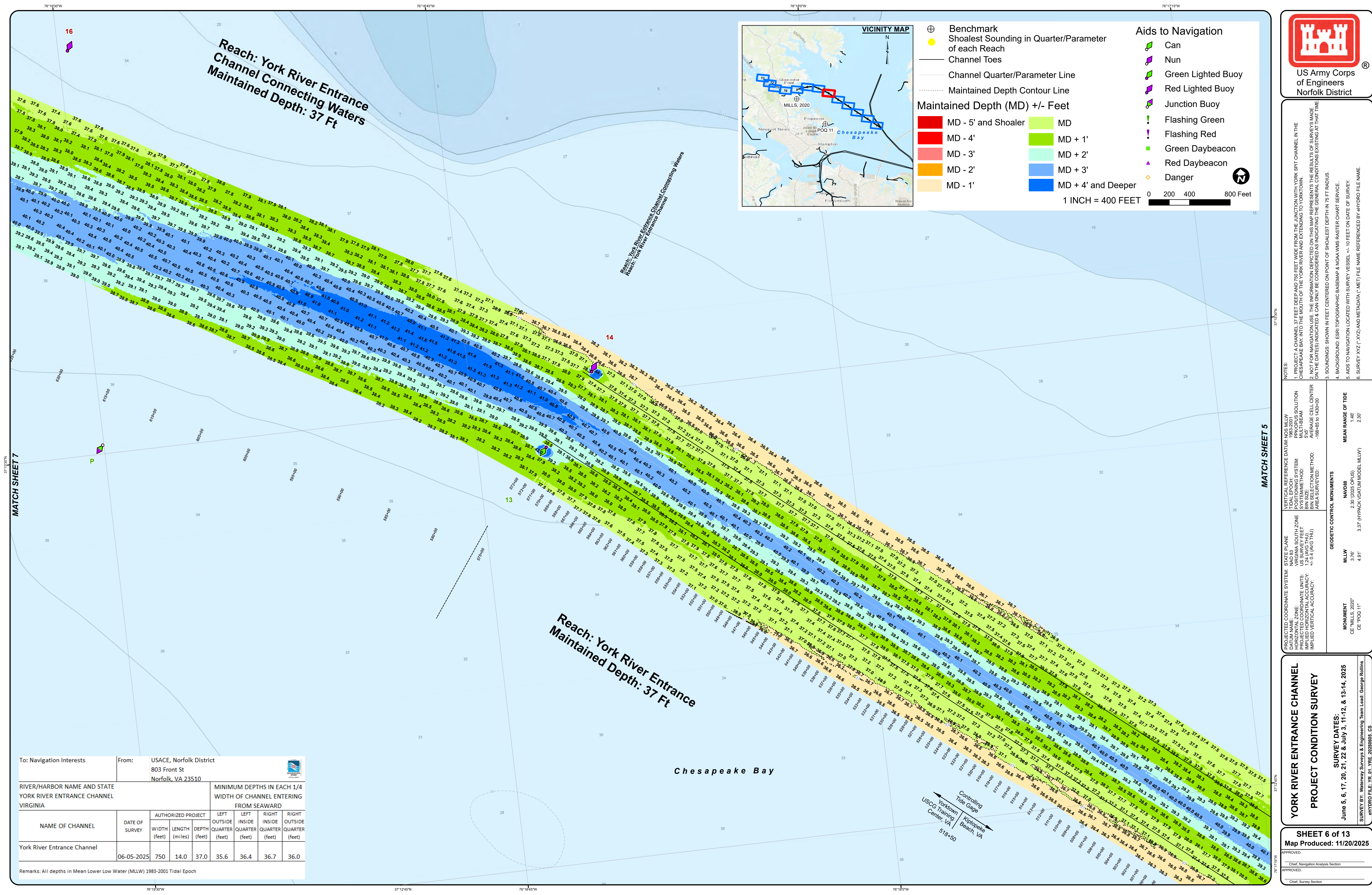
SURVEY DATES:
June 5, 6, 17, 20, 21, 22 & July 3, 11-12, & 13-14, 2025

SURVEY BY: Waterway Surveys & Engineering Team Lead: George Rollins
eHYDRO FILE: YR_01_YRE_20250605_CS

SHEET 5 of 13
Map Produced: 11/20/2025

APPROVED: _____
Chief, Navigation Analysis Section

APPROVED: _____
Chief, Survey Section



NOTES:

- PROJECT A CHANNEL 37 FEET DEEP AND 750 FEET WIDE FROM THE JUNCTION WITH YORK RPT CHANNEL IN THE CHESAPEAKE BAY INTO THE MOUTH OF THE YORK RIVER AND EXTENDING TO YORKTOWN.
- NOT FOR NAVIGATION USE. THE INFORMATION DERIVED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- SOUNDINGS SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 75 FT RADIUS.
- BACKGROUND: ESRI TOPOGRAPHIC BASEMAP & NOAA VMS RASTER CHART SERVICE.
- AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.
- SURVEY XYZ (.XYZ) AND METADATA (.MET) FILE NAME REFERENCED BY eHYDRO FILE NAME.

VERTICAL REFERENCE DATUM: NOS MLLW		MEAN RANGE OF TIDE	
POSITIONING SYSTEM:	PRKOPUS SOLUTION	MLLW	1.48'
SYSTEM METHOD:	MULTI-BEAM	NAVDBS	2.30'
BIN SIZE:	5M		
COLLECTION METHOD:	-188465 S 1430+00		
AREA SURVEYED:			
PROJECTED COORDINATE SYSTEM:		GEODETIC CONTROL MONUMENTS	
STATE PLANE	VIRGINIA SOUTH ZONE	MONUMENT	MLLW
HORIZONTAL DATUM:	US SURVEY FEET	CE MILLS, 2020"	3.76'
IMPLIED HORIZONTAL ACCURACY:	1.24 (AVG THU)	CE "POO 11"	4.91'
IMPLIED VERTICAL ACCURACY:	47.0 (AVG THU)		

YORK RIVER ENTRANCE CHANNEL
PROJECT CONDITION SURVEY

SURVEY DATES:
June 5, 6, 17, 20, 21, 22 & July 3, 11-12, & 13-14, 2025

SHEET 6 of 13
Map Produced: 11/20/2025

APPROVED: _____
Chief, Navigation Analysis Section

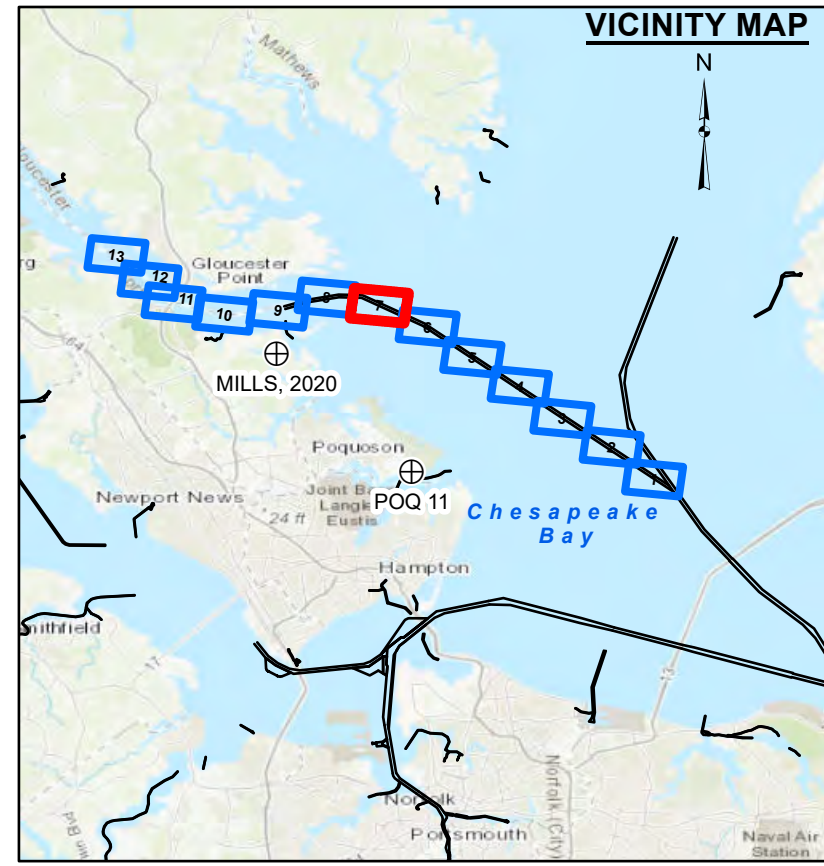
APPROVED: _____
Chief, Survey Section

MATCH SHEET 8

MATCH SHEET 6

To: Navigation Interests		From: USACE, Norfolk District 803 Front St Norfolk, VA 23510						
RIVER/HARBOR NAME AND STATE YORK RIVER ENTRANCE CHANNEL VIRGINIA				MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD				
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT		LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
York River Entrance Channel	06-05-2025	750	14.0	37.0	35.6	36.4	36.7	36.0
Remarks: All depths in Mean Lower Low Water (MLLW) 1983-2001 Tidal Epoch								

Reach: York River Entrance
Channel Connecting Waters
Maintained Depth: 37 Ft



- Benchmark
- Shoalest Sounding in Quarter/Parameter of each Reach
- Channel Toes
- Channel Quarter/Parameter Line
- Maintained Depth Contour Line

Maintained Depth (MD) +/- Feet

- MD - 5' and Shoaler
- MD - 4'
- MD - 3'
- MD - 2'
- MD - 1'
- MD
- MD + 1'
- MD + 2'
- MD + 3'
- MD + 4' and Deeper

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Buoy
- Flashing Green
- Flashing Red
- Green Daybeacon
- Red Daybeacon
- Danger

0 200 400 800 Feet



NOTES

- PROJECT A CHANNEL 37 FEET DEEP AND 750 FEET WIDE FROM THE JUNCTION WITH YORK RPT CHANNEL IN THE CHESAPEAKE BAY INTO THE MOUTH OF THE YORK RIVER AND EXTENDING TO YORKTOWN.
- NOT FOR NAVIGATION USE. THE INFORMATION DERIVED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- SOUNDINGS SHOWN IN FEET CENTERED ON POINT OF SHOALES DEPTH IN 75 FT RADIUS.
- BACKGROUND: ESRI TOPOGRAPHIC BASEMAP & NOAA VMS RASTER CHART SERVICE.
- AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.
- SURVEY XYZ (.XYZ) AND METADATA (.MET) FILE NAME REFERENCED BY eHYDRO FILE NAME.

VERTICAL REFERENCE DATUM: NOS MLLW	PRKOPUS SOLUTION
POSITIONING SYSTEM: MULTI-BEAM	
BIN SIZE: 5M	
COLLECTION METHOD: 180°	
AREA SURVEYED: 1500x400	
GEODETIC CONTROL MONUMENTS	MEAN RANGE OF TIDE
MLLW	NAVDB8
CE MLLW: 2020	1.46'
CE "POO 11"	2.30'

YORK RIVER ENTRANCE CHANNEL
PROJECT CONDITION SURVEY

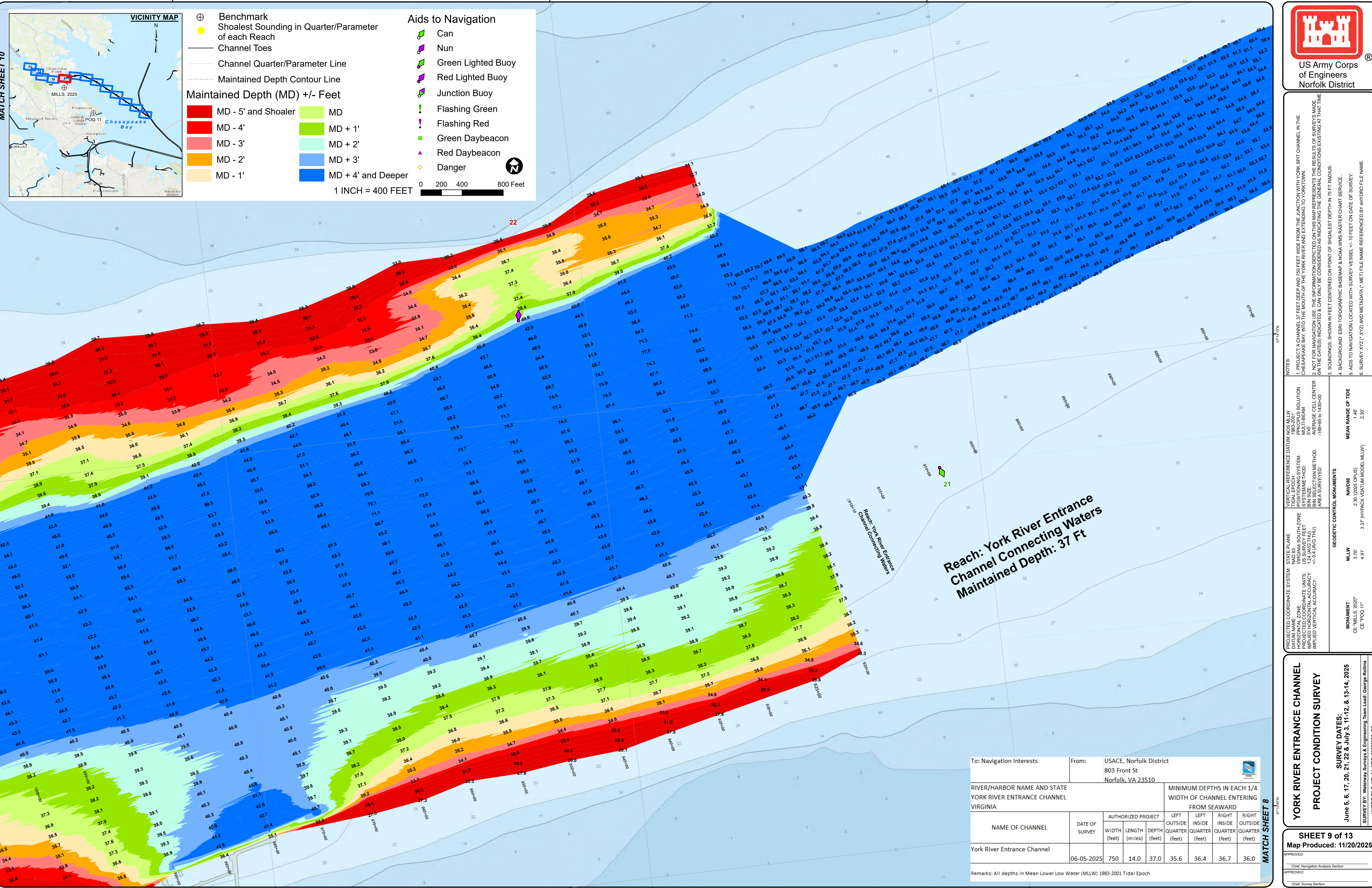
SURVEY DATES:
June 5, 6, 17, 20, 21, 22 & July 3, 11-12, & 13-14, 2025

SURVEY BY: Waterway Surveys & Engineering Team Lead: George Rollins
eHYDRO FILE: YR_01_YRE_20250605_CS

SHEET 7 of 13
Map Produced: 11/20/2025

APPROVED: _____
Chief, Navigation Analysis Section

APPROVED: _____
Chief, Survey Section



NOTES:

1. PROJECT A CHANNEL 37 FEET DEEP AND 750 FEET WIDE FROM THE JUNCTION WITH YORK SPT CHANNEL IN THE CHESAPEAKE BAY INTO THE MOUTH OF THE YORK RIVER AND EXTENDING TO YORKTOWN.
2. NOT FOR NAVIGATION. THE INFORMATION DERIVED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
3. SOUNDINGS SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 75 FT RADIUS.
4. BACKGROUND: ESRI TOPOGRAPHIC BASEMAP & NOAA VMS RASTER CHART SERVICE.
5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.
6. SURVEY XYZ (.XYZ) AND METADATA (.M) FILE NAME REFERENCED BY eHYDRO FILE NAME.

VERTICAL REFERENCE DATUM: NOS MLLW POSITIONING SYSTEM: PRKOPUS SOLUTION MULTI-BEAM BIN SIZE: 5M SYSTEM METHOD: 525 AREA SURVEYED: 188465 ± 1430+00	MEAN RANGE OF TIDE 1.46' 2.30'
PROJECTED COORDINATE SYSTEM: STATE PLANE NAD83 HORIZONTAL ANGLE: 124 (AVG THU) IMPLIED HORIZONTAL ACCURACY: 47.0 (AVG THU) IMPLIED VERTICAL ACCURACY: 47.0 (AVG THU)	GEODETIC CONTROL MONUMENTS MLLW 3.76' 4.91'
MONUMENT CE MILLS 2020 CE "POO 11"	NAVDB8 2.30 (2025 OPLS) 3.37 (HYPACK VDATUM MODEL MLLW)

Reach: York River Entrance
Channel Connecting Waters
Maintained Depth: 37 Ft

To: Navigation Interests		From: USACE, Norfolk District 803 Front St Norfolk, VA 23510						
RIVER/HARBOR NAME AND STATE YORK RIVER ENTRANCE CHANNEL VIRGINIA				MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD				
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
York River Entrance Channel	06-05-2025	750	14.0	37.0	35.6	36.4	36.7	36.0
Remarks: All depths in Mean Lower Low Water (MLLW) 1983-2001 Tidal Epoch								

YORK RIVER ENTRANCE CHANNEL

PROJECT CONDITION SURVEY

SURVEY DATES:
June 5, 6, 17, 20, 21, 22 & July 3, 11-12, & 13-14, 2025

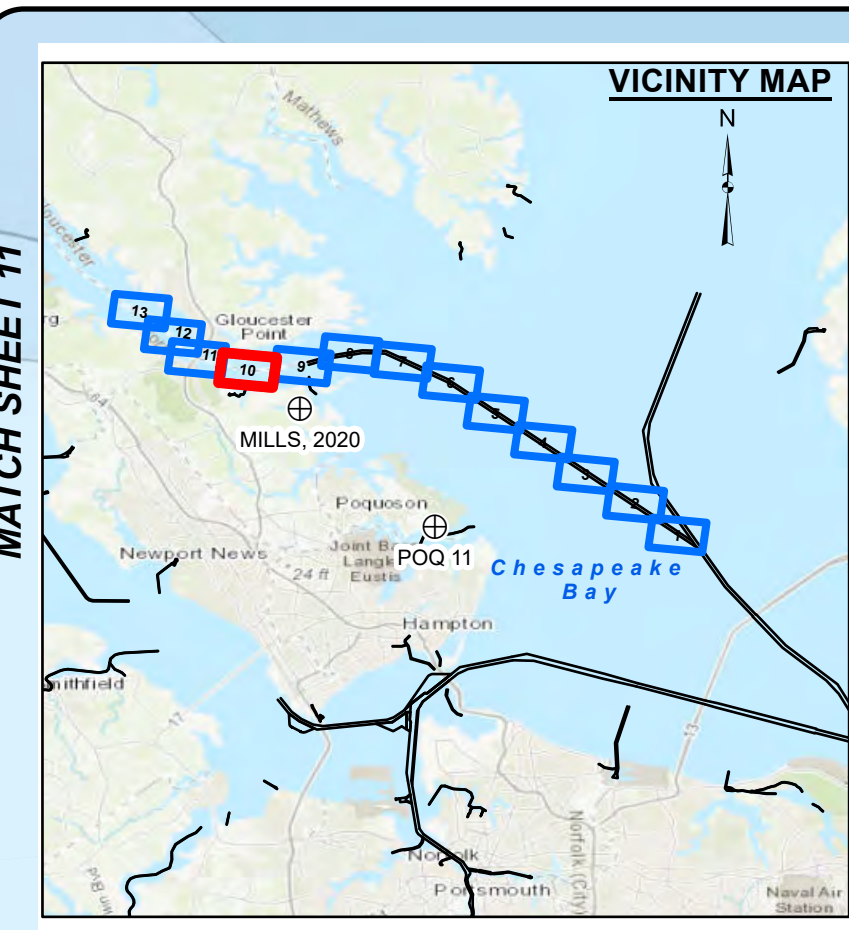
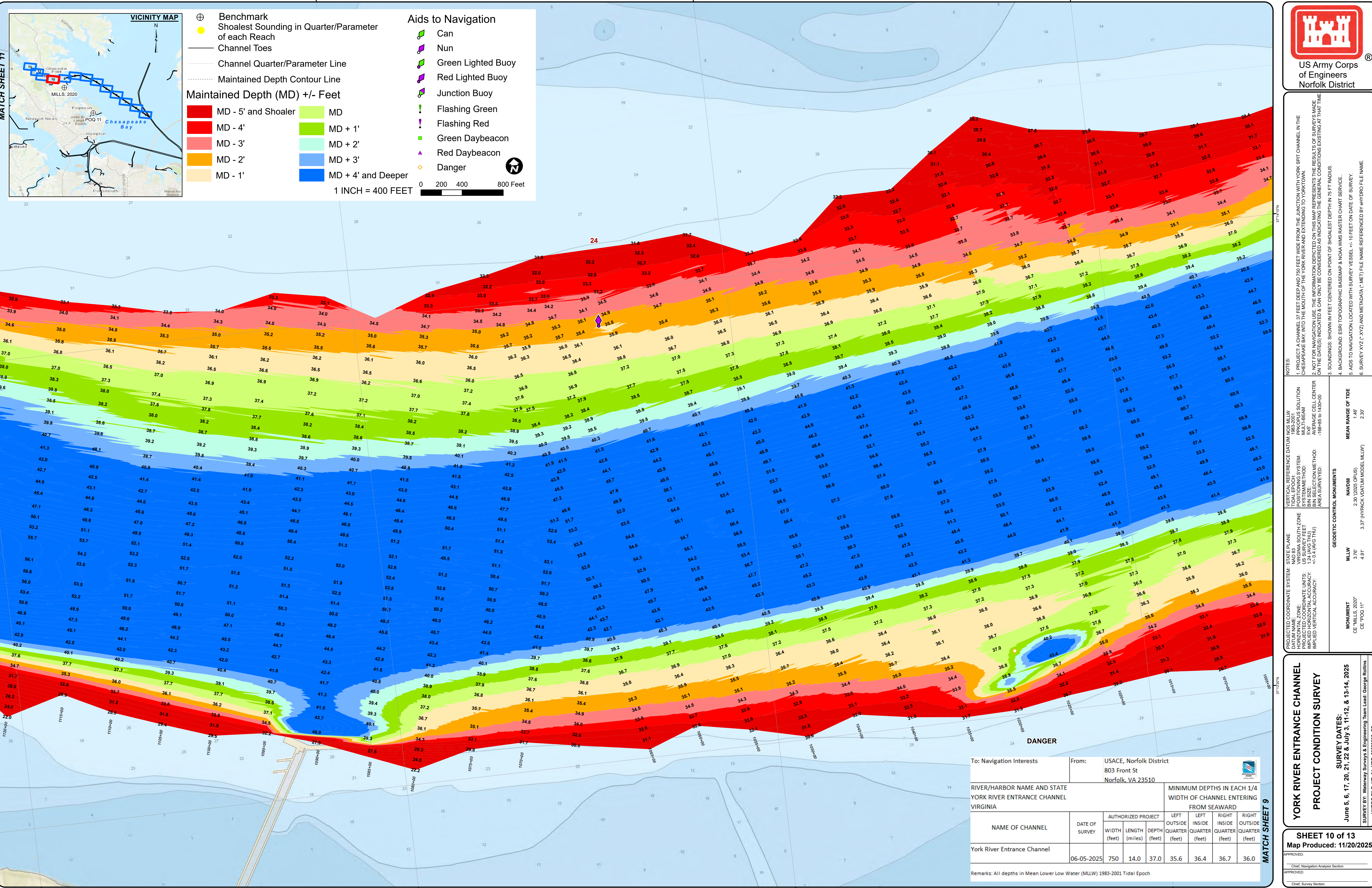
SURVEY BY: Waterway Surveys & Engineering Team Lead: George Rollins
eHYDRO FILE: YR_01_YRE_20250605_CS

SHEET 9 of 13

Map Produced: 11/20/2025

APPROVED: _____
Chief, Navigation Analysis Section

APPROVED: _____
Chief, Survey Section



⊕ Benchmark
● Shoalest Sounding in Quarter/Parameter of each Reach
— Channel Toes
— Channel Quarter/Parameter Line
- - - Maintained Depth Contour Line

Maintained Depth (MD) +/- Feet

MD - 5' and Shoaler	MD
MD - 4'	MD + 1'
MD - 3'	MD + 2'
MD - 2'	MD + 3'
MD - 1'	MD + 4' and Deeper

1 INCH = 400 FEET

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Buoy
- Flashing Green
- Flashing Red
- Green Daybeacon
- Red Daybeacon
- Danger



NOTES:

- PROJECT A CHANNEL 37 FEET DEEP AND 750 FEET WIDE FROM THE JUNCTION WITH YORK SPIT CHANNEL IN THE CHESAPEAKE BAY INTO THE MOUTH OF THE YORK RIVER AND EXTENDING TO YORKTOWN.
- NOT FOR NAVIGATION USE. THE INFORMATION DERIVED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- SOUNDINGS SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 7.5 FT RADIUS.
- BACKGROUND: ESRI TOPOGRAPHIC BASEMAP & NOAA WMS RASTER CHART SERVICE.
- AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.
- SURVEY XYZ (.XYZ) AND METADATA (.MXT) FILE NAME REFERENCED BY eHYDRO FILE NAME.

VERTICAL REFERENCE DATUM: NOS MLLW POSITIONING SYSTEM: PRKOPUS SOLUTION SYSTEM METHOD: MULTI-BEAM BIN SIZE: 5m COLLECTION METHOD: 5m AREA SURVEYED: 118465.5 1430+00	MEAN RANGE OF TIDE	
	NAVD83	1.46' 2.30'
PROJECTED COORDINATE SYSTEM: STATE PLANE PROJECTION: NAD 83 HORIZONTAL COORDINATE UNITS: US SURVEY FEET IMPLIED HORIZONTAL ACCURACY: 1/24 (AVG THU) IMPLIED VERTICAL ACCURACY: 4/3 (AVG THU)	GEODETIC CONTROL MONUMENTS	
	MONUMENT	MLLW CE MILLS: 2020 CE "POO 11"

To: Navigation Interests	From: USACE, Norfolk District 803 Front St Norfolk, VA 23510					
RIVER/HARBOR NAME AND STATE YORK RIVER ENTRANCE CHANNEL VIRGINIA						
MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD						
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER
York River Entrance Channel	06-05-2025	750 14.0 37.0	35.6	36.4	36.7	36.0
Remarks: All depths in Mean Lower Low Water (MLLW) 1983-2001 Tidal Epoch						

YORK RIVER ENTRANCE CHANNEL

PROJECT CONDITION SURVEY

SURVEY DATES:
June 5, 6, 17, 20, 21, 22 & July 3, 11-12, & 13-14, 2025

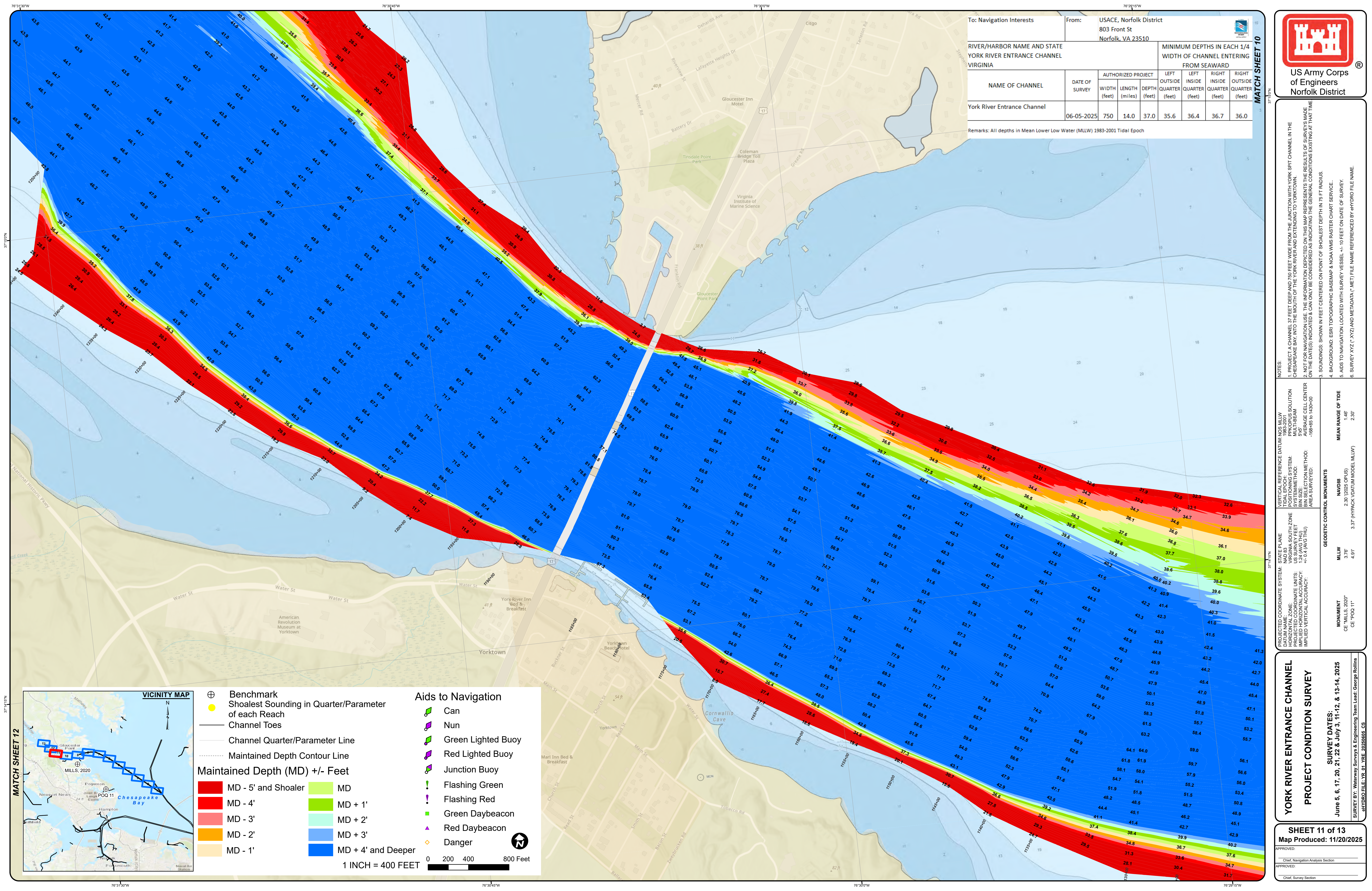
SURVEY BY: Waterway Surveys & Engineering Team Lead: George Rollins
eHYDRO FILE: YR 01_YRE_20250605_CS

SHEET 10 of 13

Map Produced: 11/20/2025

APPROVED: _____
Chief, Navigation Analysis Section

APPROVED: _____
Chief, Survey Section



US Army Corps
of Engineers
Norfolk District

NOTES:
1. PROJECT A CHANNEL 37 FEET DEEP AND 750 FEET WIDE FROM THE JUNCTION WITH YORK SPIT CHANNEL IN THE CHESAPEAKE BAY, INTO THE MOUTH OF THE YORK RIVER AND EXTENDING TO YORKTOWN.

3. SOUNDINGS SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 75 FT RADII.
4. BACKGROUND: ESRI TOPOGRAPHIC BASEMAP & NOAA WMS RASTER CHART SERVICE.
5. AID TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.

VERTICAL REFERENCE DATUM: NOS MLW
 IDEAL EPOCH: 1983-2001
 POSITIONING SYSTEM: PK/OPUS SOLUTION
 SYSTEM/METHOD: MULTI-BEAM
 BIN SIZE: 5X5
 BIN SELECTION METHOD: AVERAGE CELL CENTER
 BE A SUBJECTED: 168-95 to 1420-00

MONUMENTS	MEAN RANGE OF TIDE
NAVYD88	1.46'
2.30 (2025 OPUS)	2.20'

PROJECTED COORDINATE SYSTEM: STATE PLANE
DATUM NAME: NAD 83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: 1.24 (AVG THU)
IMPLIED VERTICAL ACCURACY: +/- 0.4 (AVG THU)

MONUMENT	MLLW	GEODETIC CON
CE "MILLS, 2020"	3.76"	
CE "BOO 41"	4.04"	2.27"/L

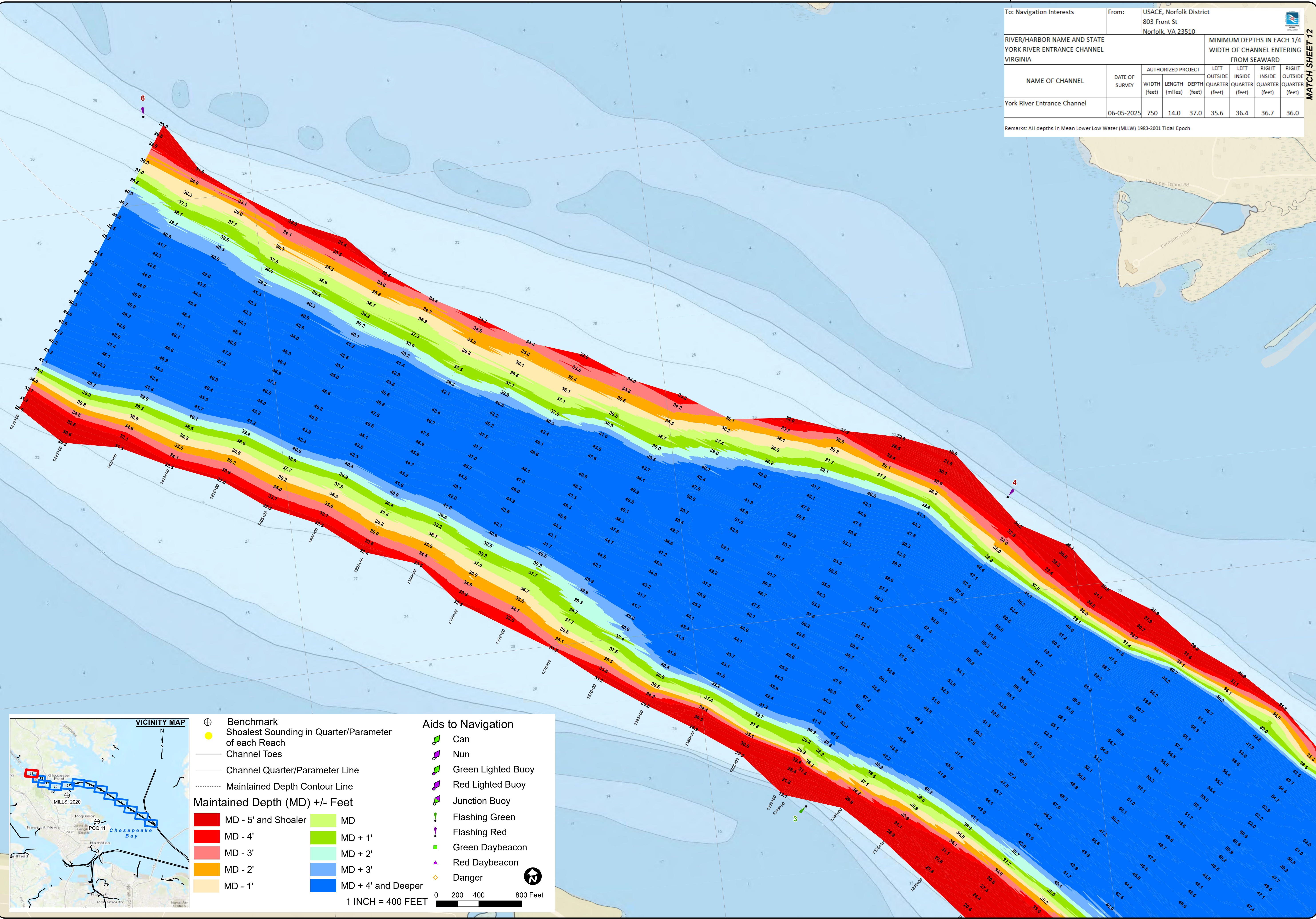
**YORK RIVER ENTRANCE CHANNEL
PROJECT CONDITION SURVEY**

SURVEY DATES:
June 5, 6, 17, 20, 21, 22 & July 3, 11-12, & 13-14, 2025

SHEET 11 of 13
Map Produced: 11/20/20

APPROVED: _____
Chief, Navigation Analysis Section

APPROVED: _____
Chief, Survey Section



To: Navigation Interests		From: USACE, Norfolk District 803 Front St Norfolk, VA 23510						
RIVER/HARBOR NAME AND STATE YORK RIVER ENTRANCE CHANNEL VIRGINIA				MINIMUM DEPTHS IN EACH 1/4 WIDTH OF CHANNEL ENTERING FROM SEAWARD				
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
York River Entrance Channel	06-05-2025	750	14.0	37.0	35.6	36.4	36.7	36.0
Remarks: All depths in Mean Lower Low Water (MLLW) 1983-2001 Tidal Epoch								

MATCH SHEET 12

US Army Corps
of Engineers
Norfolk District

NOTES:

- PROJECT A CHANNEL 37 FEET DEEP AND 750 FEET WIDE FROM THE JUNCTION WITH YORK RPT CHANNEL IN THE CHESAPEAKE BAY INTO THE MOUTH OF THE YORK RIVER AND EXTENDING TO YORNTOWN.
- NOT FOR NAVIGATION USE. THE INFORMATION DERIVED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- SOUNDINGS SHOWN IN FEET CENTERED ON POINT OF SHOALESST DEPTH IN 75 FT RADIUS.
- BACKGROUND: ESRI TOPOGRAPHIC BASEMAP & NOAA VMS RASTER CHART SERVICE.
- AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.
- SURVEY XYZ (.XYZ) AND METADATA (.MET) FILE NAME REFERENCED BY eHYDRO FILE NAME.

VERTICAL REFERENCE DATUM: NOS MLLW	PRKOPUS SOLUTION
POSITIONING SYSTEM: MULTI-BEAM	525
BIN SIZE: 1.00 M	1.00 M
COLLECTION METHOD: AREA SURVEY	-188465 S 1430+00

PROJECTED COORDINATE SYSTEM: STATE PLANE	MEAN RANGE OF TIDE
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE	1.46'
US SURVEY FEET	2.30'
IMPLIED HORIZONTAL ACCURACY: 1:24 (AVG THU)	2.30'
IMPLIED VERTICAL ACCURACY: 47.04 (AVG THU)	

MONUMENT	CE MLLW: 2020"	CE "POQ 11"
MLLW	3.76'	4.91'
NAVDB8	2.30' (2025 OPLS)	3.37' (HYPACK VDATUM MODEL MLLW)

YORK RIVER ENTRANCE CHANNEL

PROJECT CONDITION SURVEY

SURVEY DATES:
June 5, 6, 17, 20, 21, 22 & July 3, 11-12, & 13-14, 2025

SURVEY BY: Waterway Surveys & Engineering Team Lead: George Rollins
eHYDRO FILE: YR_01_YRE_20250605_CS

SHEET 13 of 13

Map Produced: 11/20/2025

APPROVED: _____
Chief, Navigation Analysis Section

APPROVED: _____
Chief, Survey Section