

Not to be used for navigation

Hudson River Kingston to Waterford, NY Survey Reach Key Map Disclaimer – While the United States Army Corps of Engineers (here in after referred to as USACE) has made every reasonable effort to ensure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation, or guarantee, either expressed or implied, as to the content, sequence, accuracy, timeliness, or completeness of any of the data provided herein. USACE, its officers, agents, employees, or servants shall assume no liability of any nature for any errors, omissions, or inaccuracies in the information provided regardless of the cause. USACE, its officers, agents, employees, or servants shall assume no liability for any decisions made or actions taken or not taken by the user of the maps and associated data in reliance upon any information or data furnished here. By using these maps and associated data the user does so entirely at their own risk and explicitly acknowledges that she/he is aware of and agrees to be bound by this disclaimer and agrees not to present any claim or demand of any nature against USACE, its officers, agents, employees, or servants in any forum whatsoever for any damages of any nature whatsoever that may result from or be caused in any way by the use of the maps and associated data.

Coordinate system used is NAD1983 State Plane New York East. Basemap courtesy of Bing.

Hudson River Kingston to Waterford, NY Survey Reach Key Map

Legend

Federal Navigation Channel

Reach Boundary

Hydrographic Features

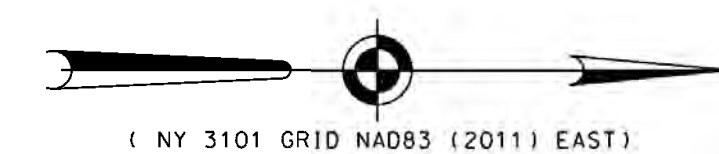
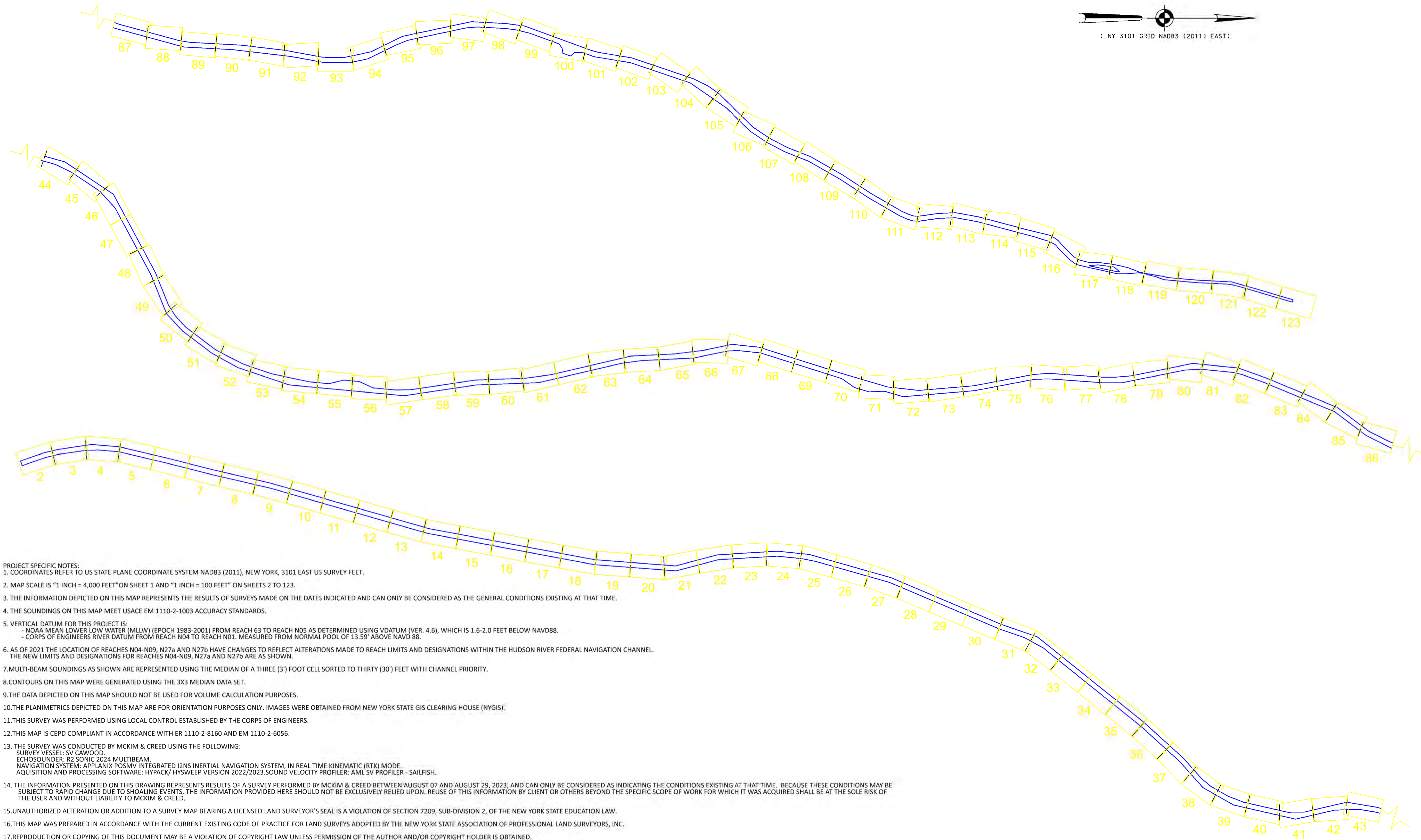
Cities & Towns

Counties

Hydrographic Features



US Army Corps
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New York District

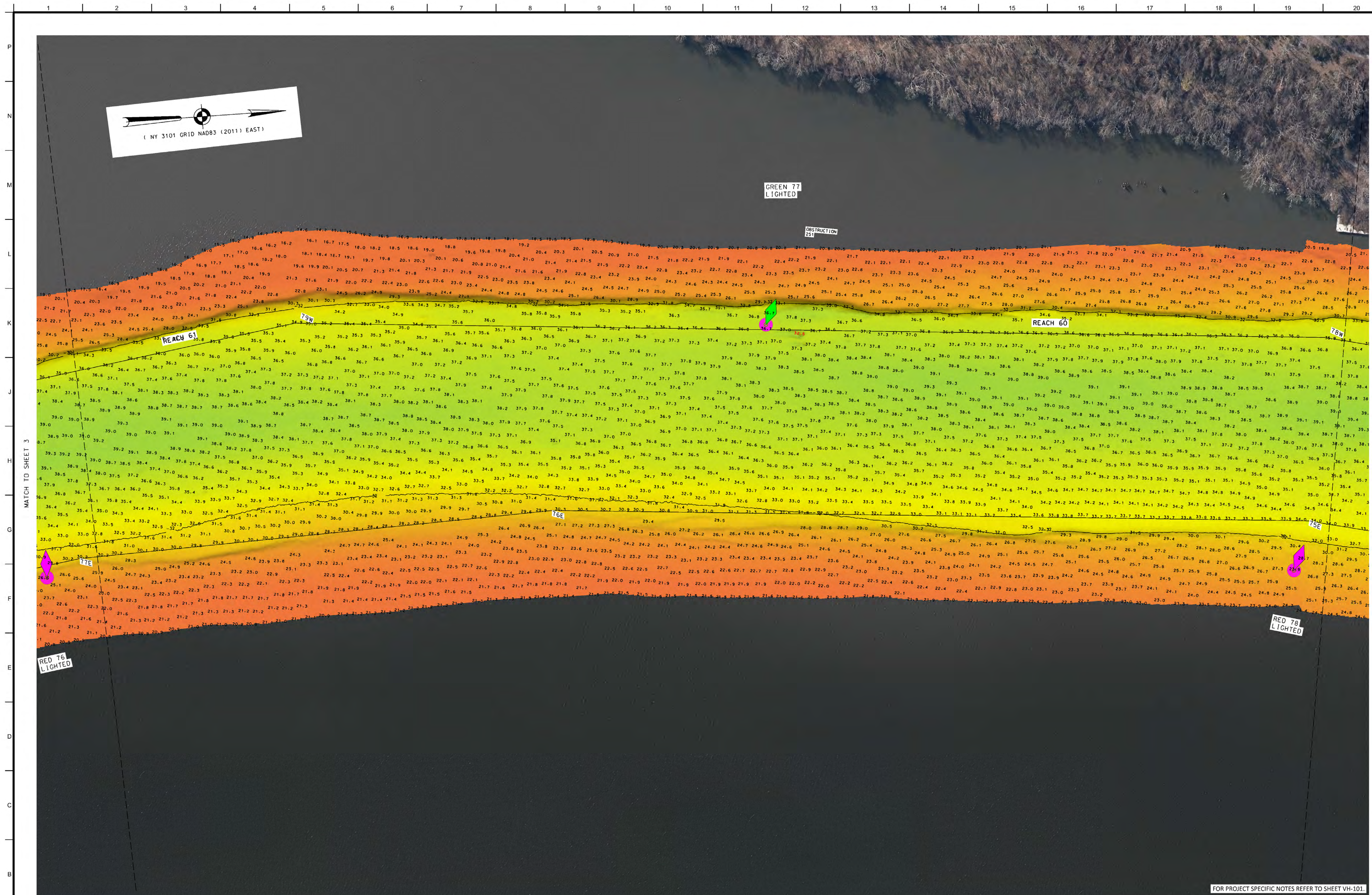
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APPROVED:	M. HOLDEN	FIELD CARTOGRAPHER
APPROVED:	R. SMITH	CIVIL ENGINEERING TECH
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	J. MRAZ	DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE:	29 AUGUST 2023	

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY



LOCAL CONTROL DATA		NSRS BENCHMARK	
BENCHMARK: HR-12	BENCHMARK: 01-1	BENCHMARK: TROY DAM 1 (PID:BBDR68)	
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)	

[illegible]

SCALE: ONE INCH = 100 FEET	DATES OF SURVEY: 07 AUGUST 2023 TO 29 AUGUST 2023
	REQ. NO./FILE NO.: 5303/CAWOOD
F FIELD BOOKS: 2184 _____ 2175 _____	

APPROVED:	M. HOLDEN	FIELD CARTOGRAPHER
APPROVED:	R. SMITH	CIVIL ENGINEERING TECH
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	J. MRAZ	DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE:	29 AUGUST 2023	

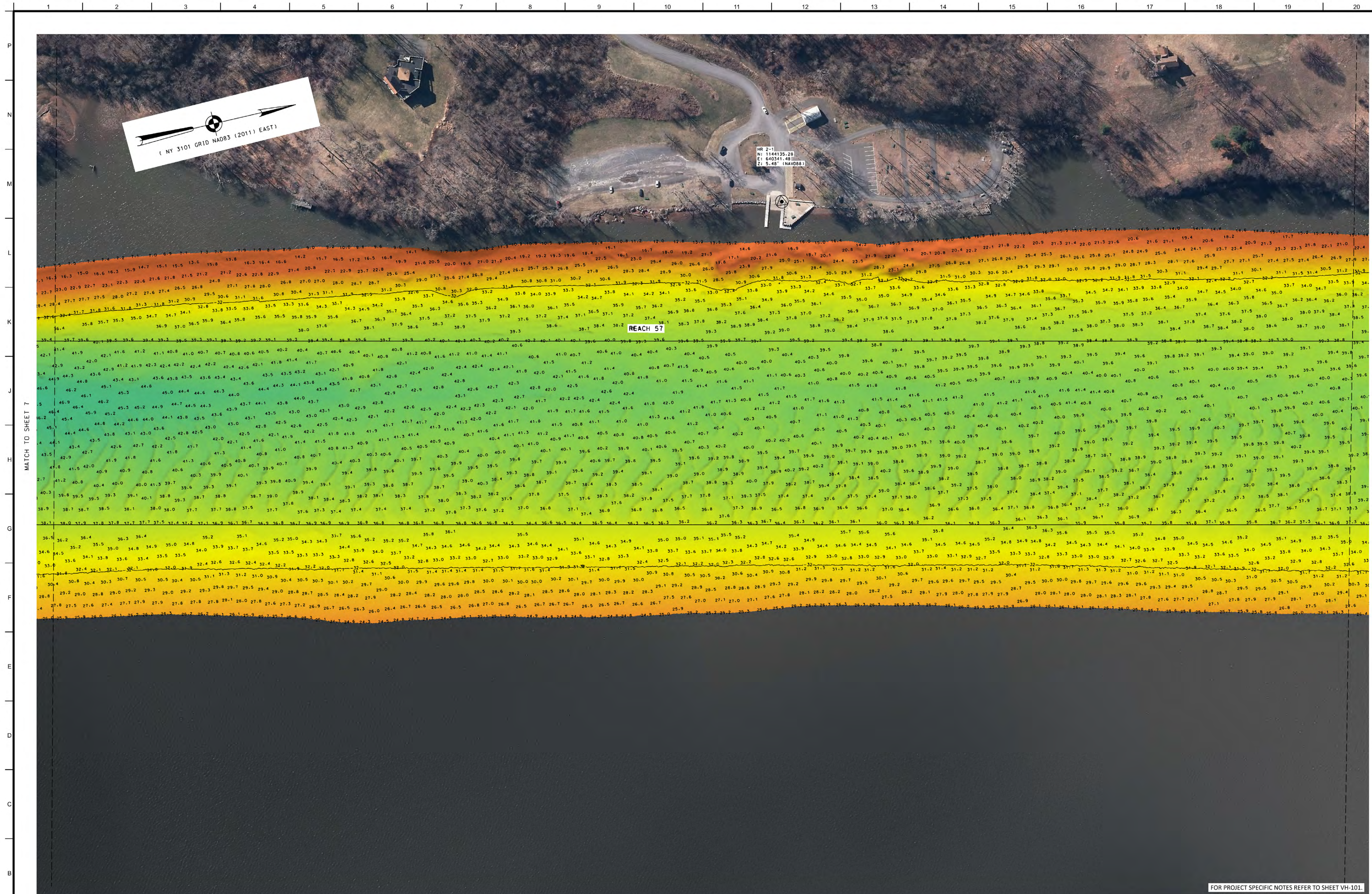
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U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP--SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

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4 OF 123

LOCAL CONTROL DATA		NSRS BENCHMARK	
BENCHMARK: HR-12	BENCHMARK: O1-1	BENCHMARK: TROY DAM 1 (PID:BBDR68)	
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)	



US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

[illegible]

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

REQ. NO./FILE NO.: 5303/CAWOOD

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184 _____
2175 _____

APPROVED:	M. HOLDEN	FIELD CARTOGRAPHER
APPROVED:	R. SMITH	
APPROVED:	P. BHADUR	CIVIL ENGINEERING TECH
APPROVED:	J. MRIZ	CHIEF OF SURVEY SUPPORT SECTION
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH		
DATE:	29 AUGUST 2023	

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NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
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HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY


VH-108

8 OF 123

MATCH TO SHEET 9

FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

0 100' 200

 **McKIM & CREED**
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

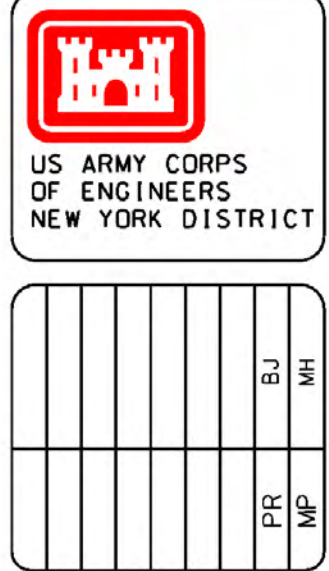
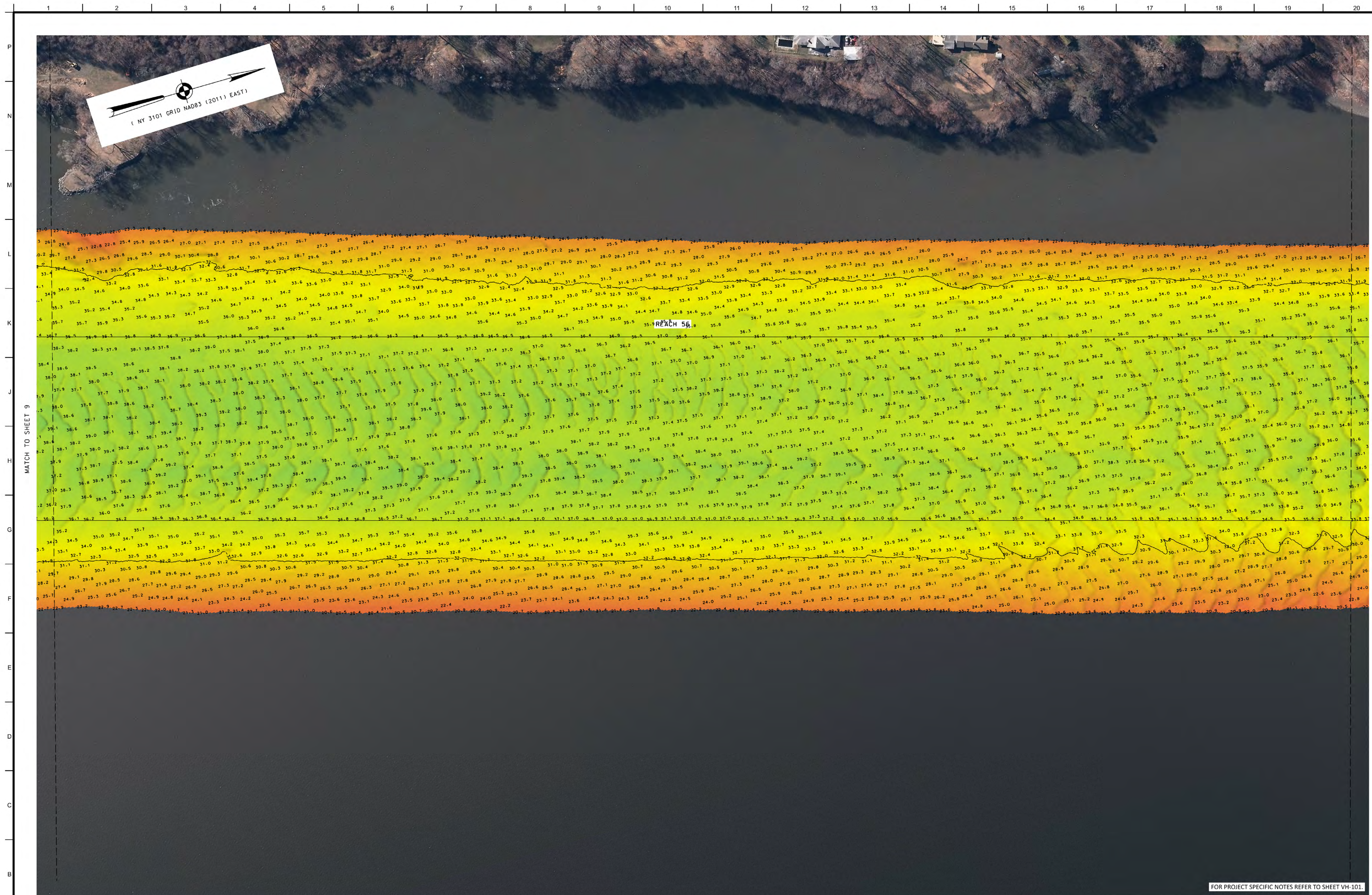
LOCAL CONTROL DATA

BENCHMARK: HR-1
ELEVATION: 8.67

BENCHMARK: 01-1
ELEVATION: 3.87' (NAVD83)

NSRS BENCHMARK

BENCHMARK: TROY DAM 1 (PID:BBDR68)
ELEVATION: 25.32' (NAVD88)



SCALE: ONE INCH = 100 FEET	DATES OF SURVEY: 07 AUGUST 2023 TO 29 AUGUST 2023
	REQ. NO./FILE NO.: 5303/CAWOOD
F FIELD BOOKS: 2184 2175	


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APPROVED:	J. MRAZ	DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE:	29 AUGUST 2023	

DEPARTMENT OF THE ARMY
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NEW YORK, NEW YORK 10278

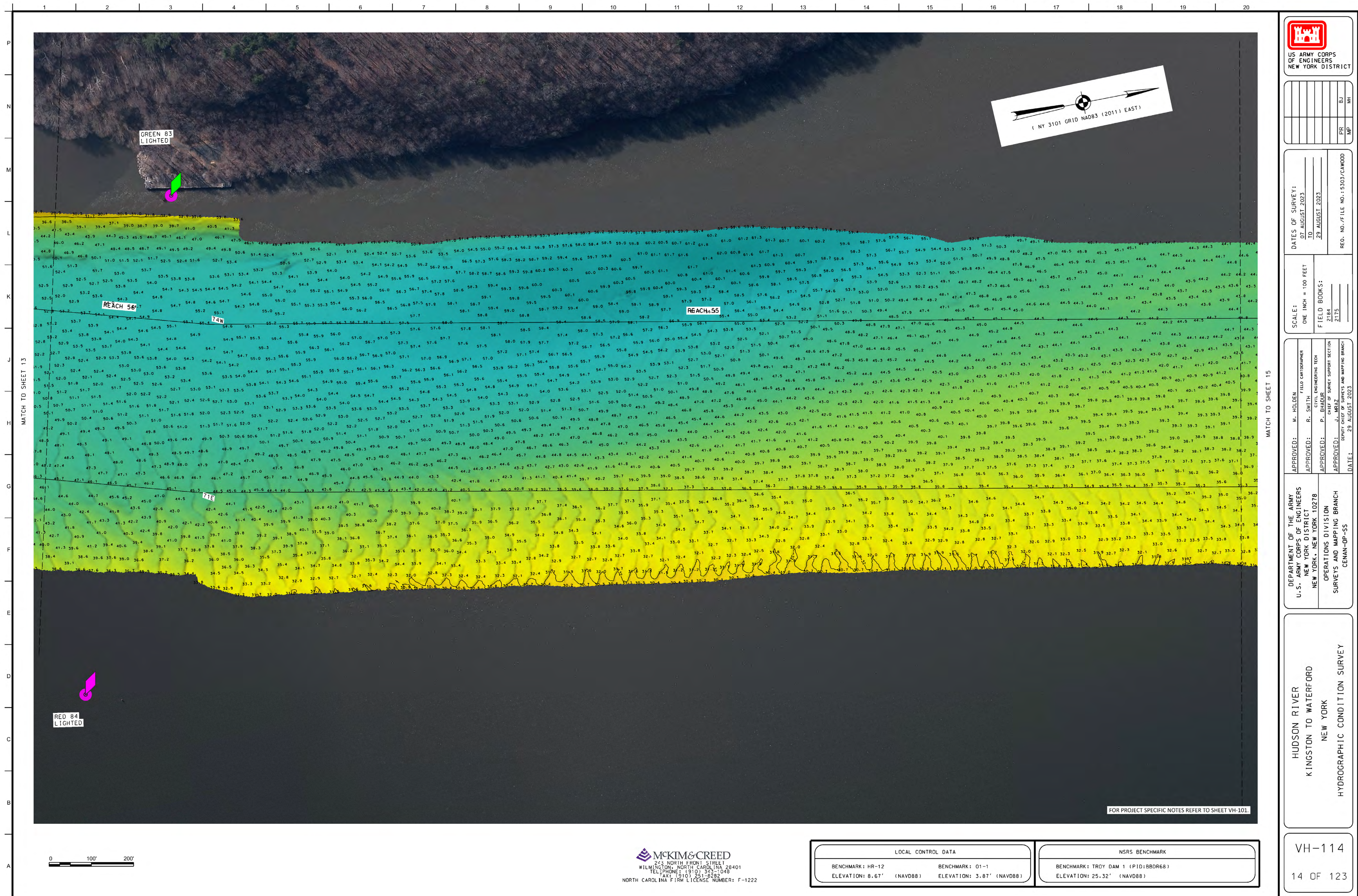
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP--SS

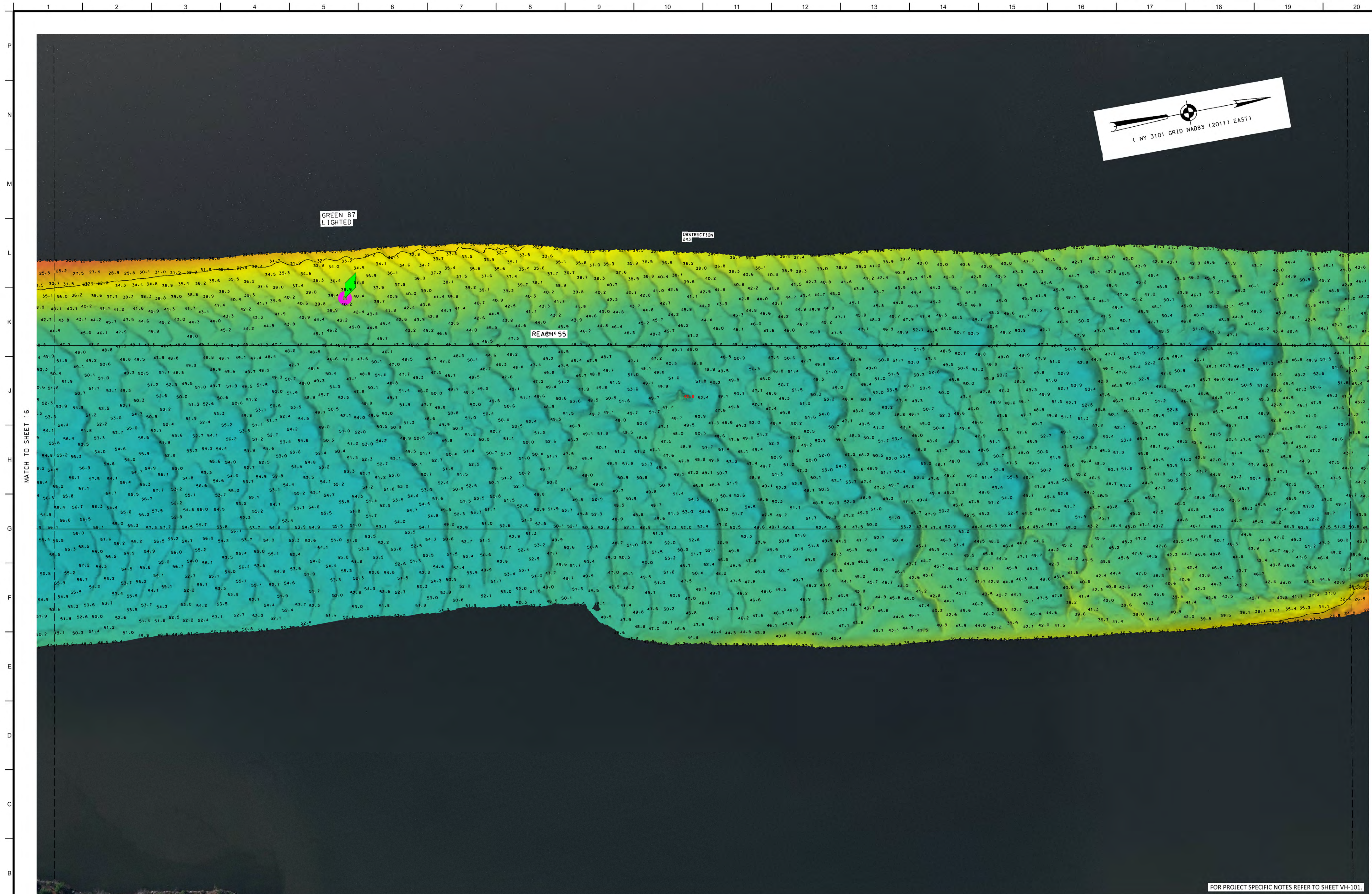
HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-110
10 OF 123

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TELEPHONE: (910) 343-1048
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NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

LOCAL CONTROL DATA		NSRS BENCHMARK	
BENCHMARK: HR-12	BENCHMARK: 01-1	BENCHMARK: TROY DAM 1 (PID:BDR68)	
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)	





US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

[illegible]

DATES OF SURVEY:

07 AUGUST 2023
TO

29 AUGUST 2023

REQ. NO./FILE NO.: 5303/CAWOOD

SCALE:

ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: M. HOLDEN

APPROVED: R. SMITH
FIELD CARTOGRAPHER

APPROVED: P. BHADUR
CIVIL ENGINEERING TECH

DATE: 29 AUGUST 2023

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS

NEW YORK DISTRICT

NEW YORK: NEW YORK 10278
OPERATIONS DIVISION

CENAN-OP-SS

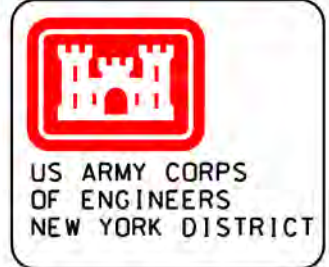
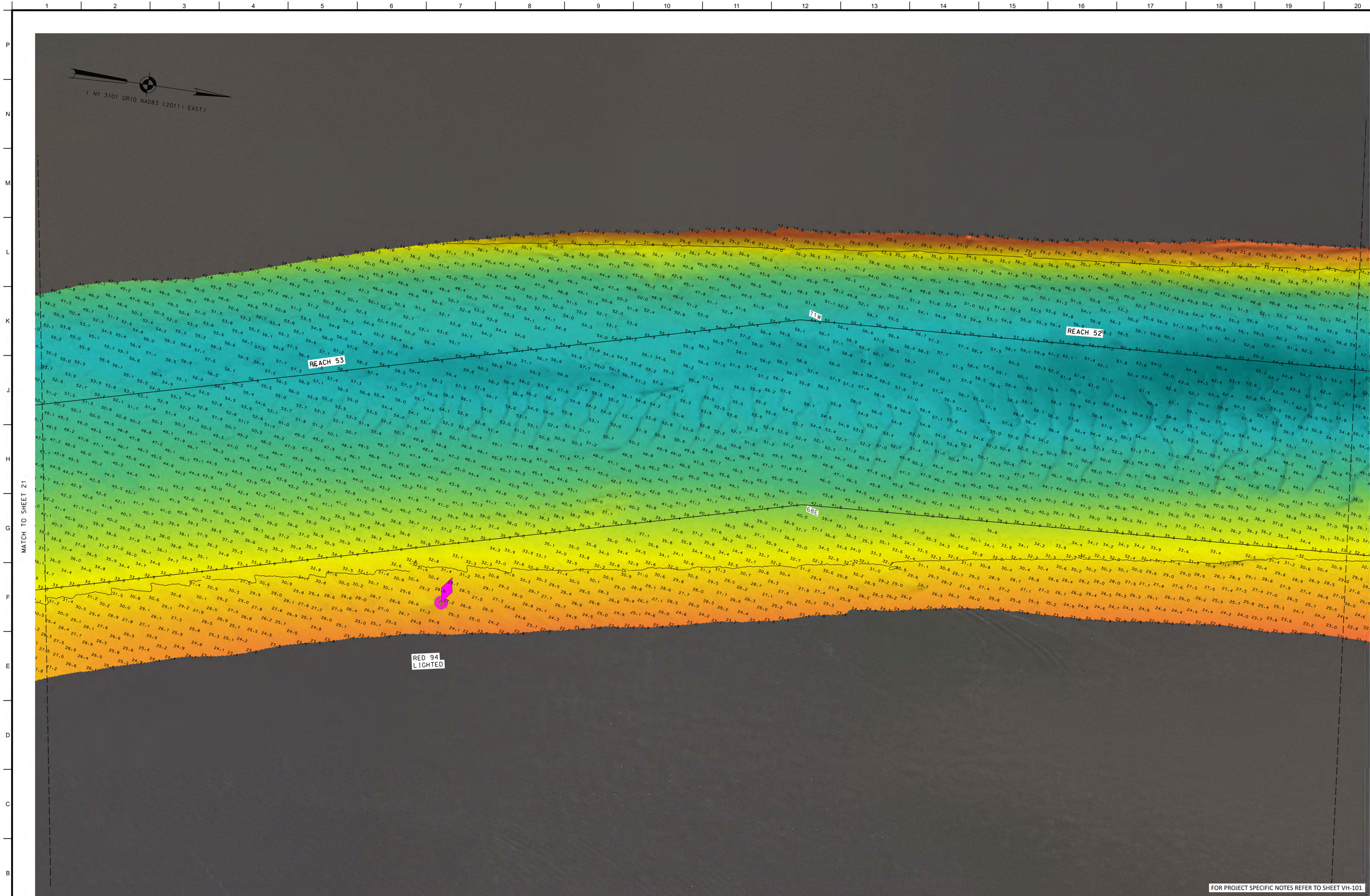
HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-117

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 **McKIM & CREED**
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

LOCAL CONTROL DATA		NSRS BENCHMARK	
BENCHMARK: HR-12	BENCHMARK: 01-1	BENCHMARK: TROY DAM 1 (PID:BB0R68)	
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)	



DATE OF SURVEY:	07 AUGUST 2023
TO	29 AUGUST 2023
FIELD BOOKS:	2184
2175	
REQ. NO./FILE NO.:	5303/CAWOOD

APPROVED:	M. HOLDEN
APPROVED:	R. SMITH
APPROVED:	P. BLADUE
APPROVED:	JL. MRZ
DATE:	29 AUGUST 2023

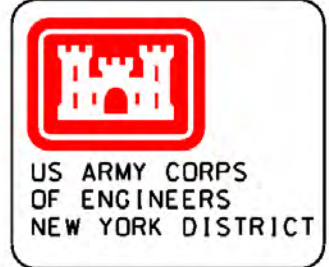
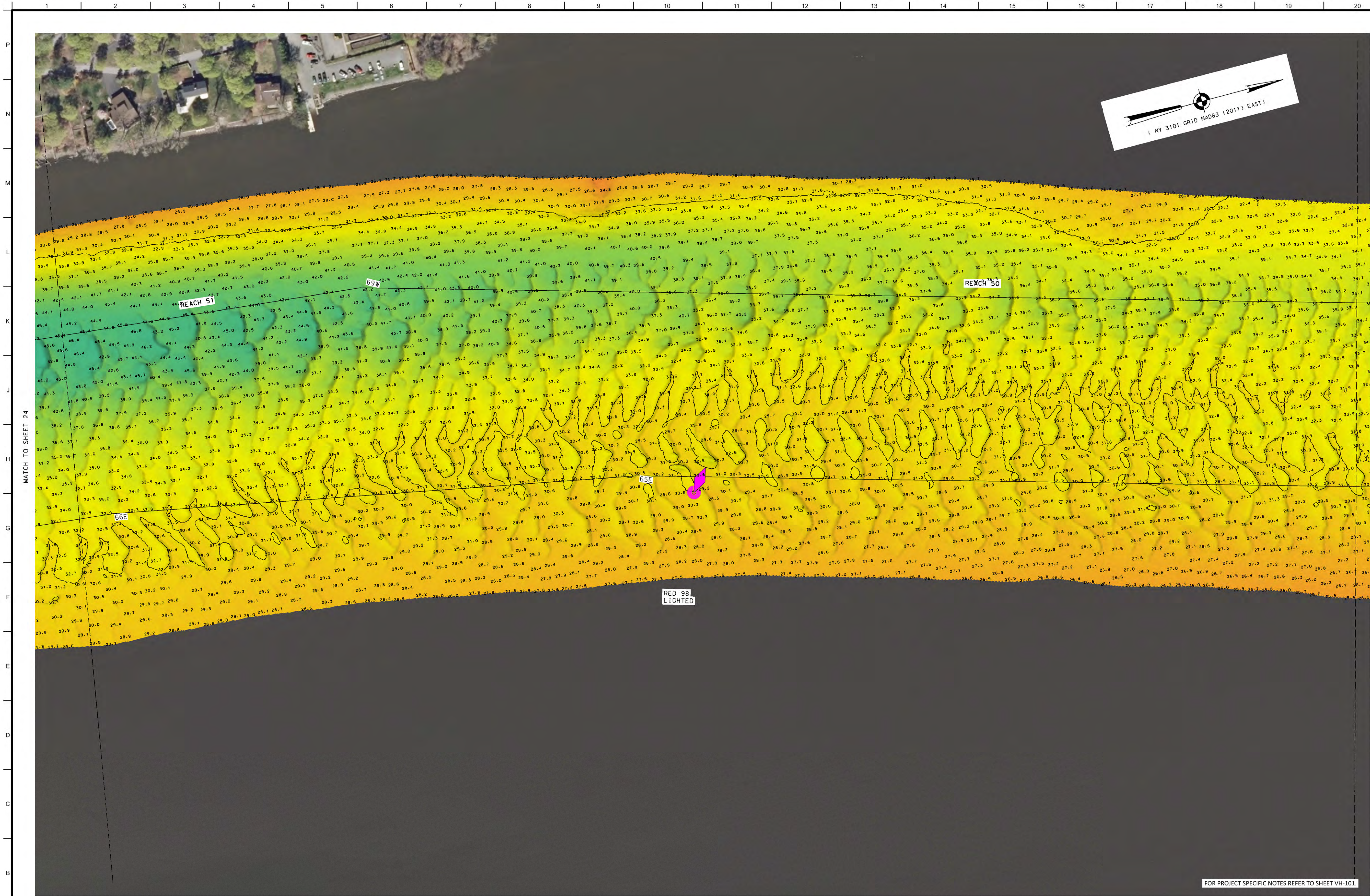
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OPERATIONS DIVISION	SURVEYS AND MAPPING BRANCH	CENAN-OP-SS	

HUDSON RIVER	KINGSTON TO WATERFORD	NEW YORK
HYDROGRAPHIC CONDITION SURVEY		

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22 OF 123

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243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 352-1008
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

LOCAL CONTROL DATA		NSRS BENCHMARK	
BENCHMARK: HR-12	ELEVATION: 8.67' (NAVD88)	BENCHMARK: 01-1	ELEVATION: 3.87' (NAVD88)
		BENCHMARK: TROY DAM 1 (PID:BBDR68)	ELEVATION: 25.32' (NAVD88)



DATE OF SURVEY:	07 AUGUST 2023
TO	29 AUGUST 2023
FILE BOOKS:	2184
2175	
REQ. NO./FILE NO.:	5303/CAWOOD
PR	BJ
MP	MT

DATE OF SURVEY:	07 AUGUST 2023
TO	29 AUGUST 2023
FILE BOOKS:	2184
2175	
REQ. NO./FILE NO.:	5303/CAWOOD

APPROVED:	M. HOLDEN
APPROVED:	R. SMITH
APPROVED:	P. BLAUG
APPROVED:	J. MAZ
DATE:	29 AUGUST 2023

DEPARTMENT OF THE ARMY	U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT	NEW YORK, NEW YORK 10278
OPERATIONS DIVISION	SURVEYS AND MAPPING BRANCH
CENAN-OP-SS	

HUDSON RIVER	KINGSTON TO WATERFORD
NEW YORK	HYDROGRAPHIC CONDITION SURVEY

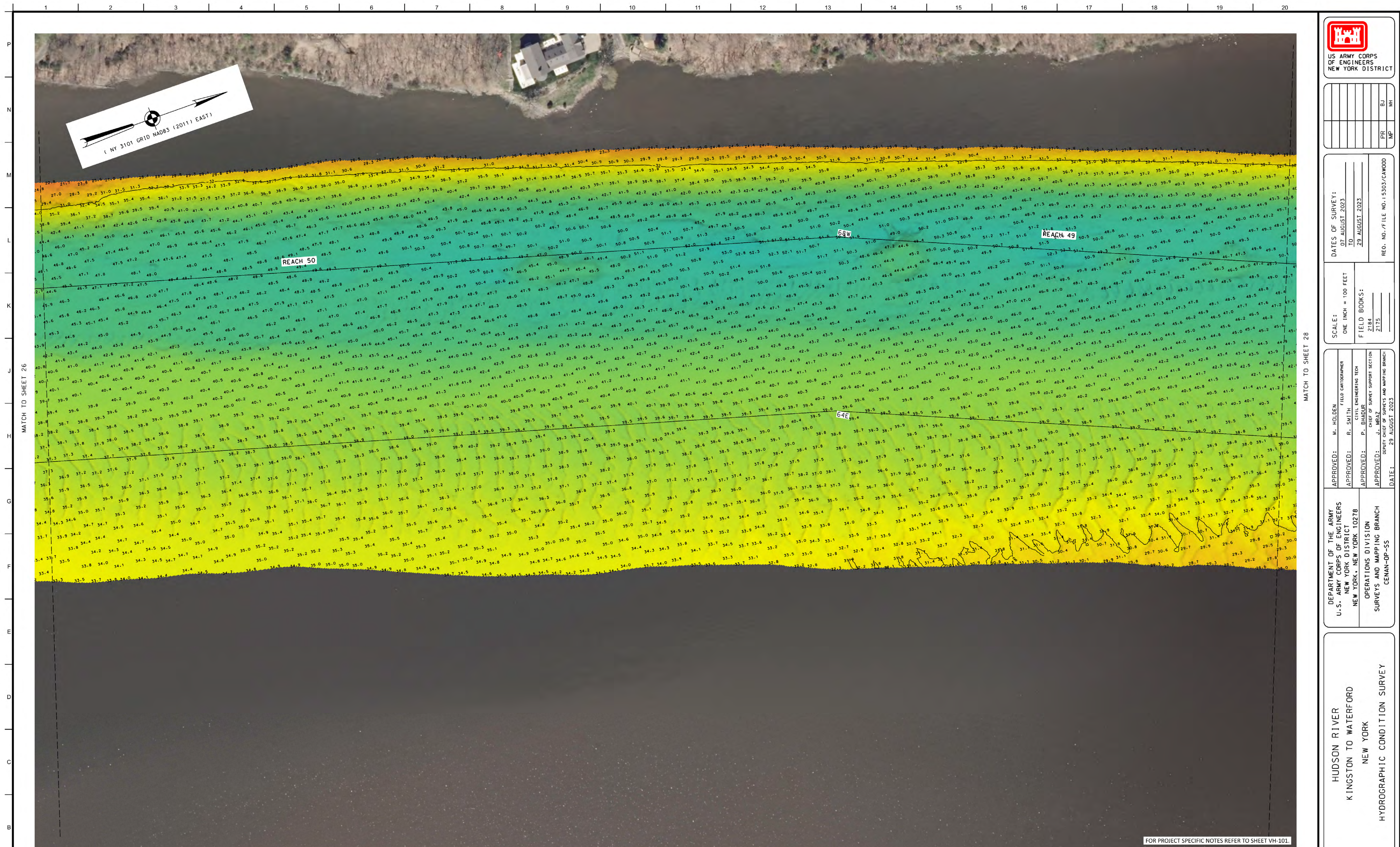
VH-125
25 OF 123

MCKIM & CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

LOCAL CONTROL DATA	
BENCHMARK: HR-12	BENCHMARK: 01-1
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)

NSRS BENCHMARK	
BENCHMARK: TROY DAM 1 (PID:BBDR68)	
ELEVATION: 25.32' (NAVD88)	

FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.



US ARMY CORPS
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NEW YORK DISTRICT

							Bj	MH
							PR	MP

DATE OF SURVEY:

07 AUGUST 2023

29 AUGUST 2023

REQ. NO./FILE NO.: 5303/CAWOOD

SCALE:

ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: M. HOLDEN

APPROVED: R. SMITH

APPROVED: P. BHADUR
CIVIL EN

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U. S. ARMY CORPS OF ENGINEERS

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

NEW YORK, NEW YORK 10278

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

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LOCAL CONTROL DATA

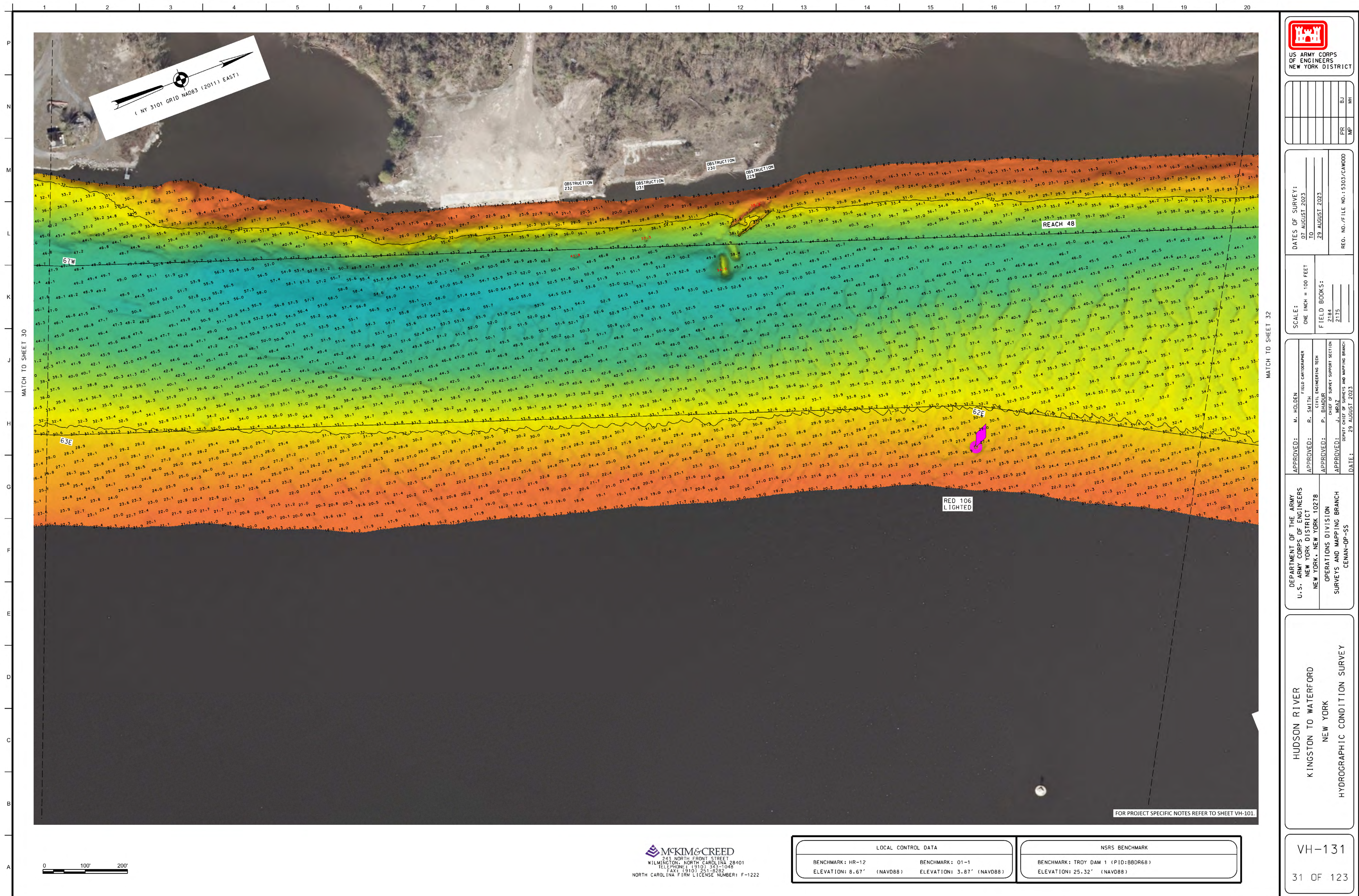
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ELEVATION: 8.67'

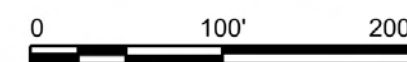
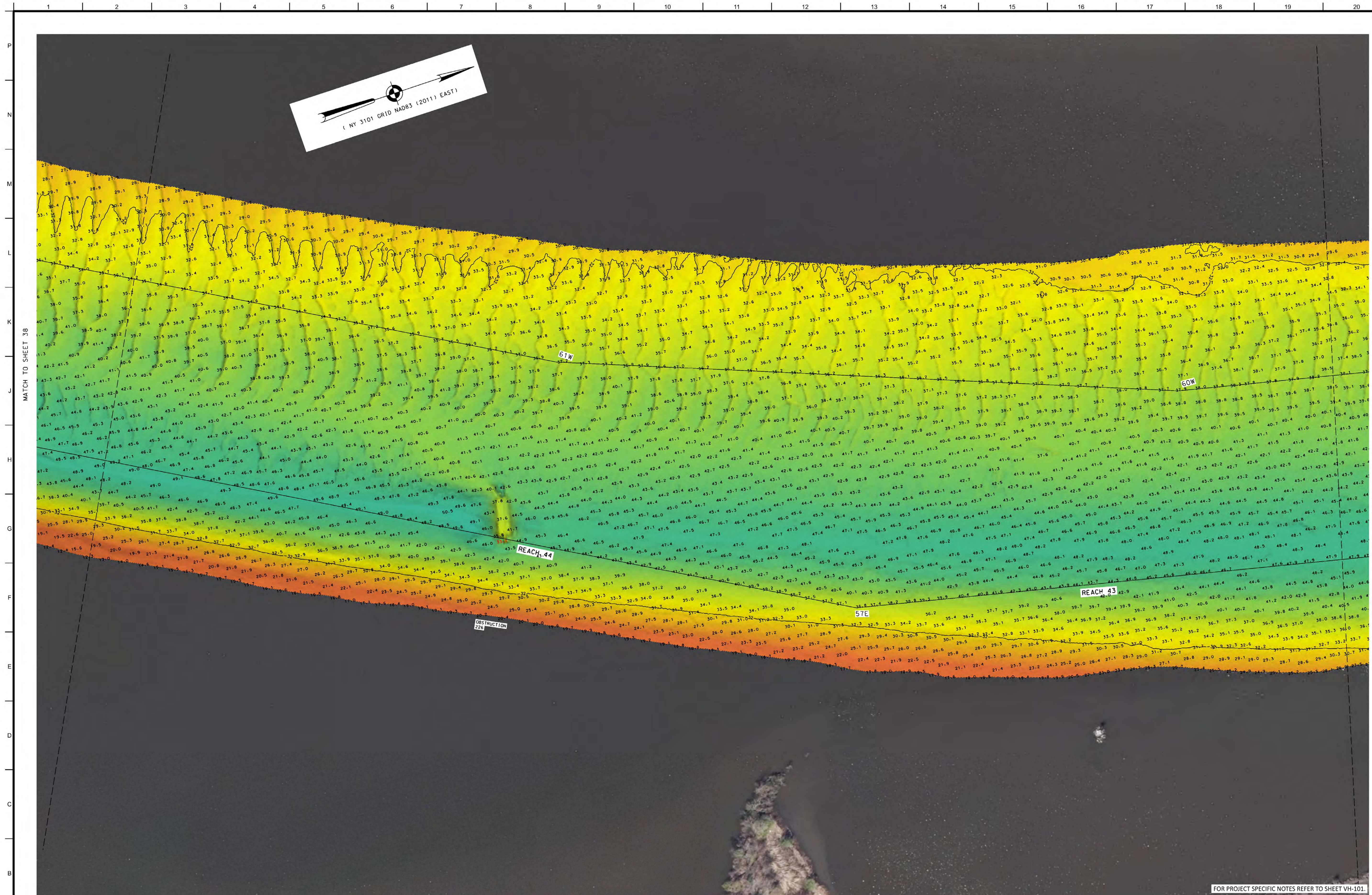
BENCHMARK: 01-1
ELEVATION: 3.87' (NAVD88)

NSRS BENCHMARK

BENCHMARK: TROY DAM 1 (PID:BBDR68)
ELEVATION: 25.32' (NAVD88)

 **McKIM & CREED**
243 NORTH FRONT STREET
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TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222





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WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

LOCAL CONTROL DATA		NSRS BENCHMARK	
BENCHMARK: HR-12	BENCHMARK: 01-1	BENCHMARK: TROY DAM 1 (PID:B8DR68)	
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)	



US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

[illegible]

SCALE: ONE INCH = 100 FEET	DATES OF SURVEY: 07 AUGUST 2023 TO 29 AUGUST 2023
FIELD BOOKS: 2184 2175	REQ. NO./FILE NO.: 5303/CAWOOD

APPROVED:	M. HOLDEN	FIELD CARTOGRAPHER
APPROVED:	R. SMITH	
APPROVED:	P. BHADUR	CIVIL ENGINEERING TECH
APPROVED:	J. MRIZ	CHIEF OF SURVEY SUPPORT SECTION
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH		
DATE:	29 AUGUST 2023	

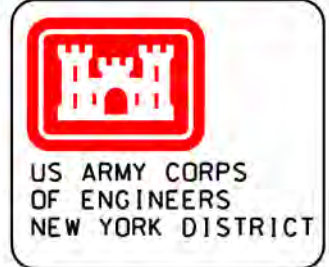
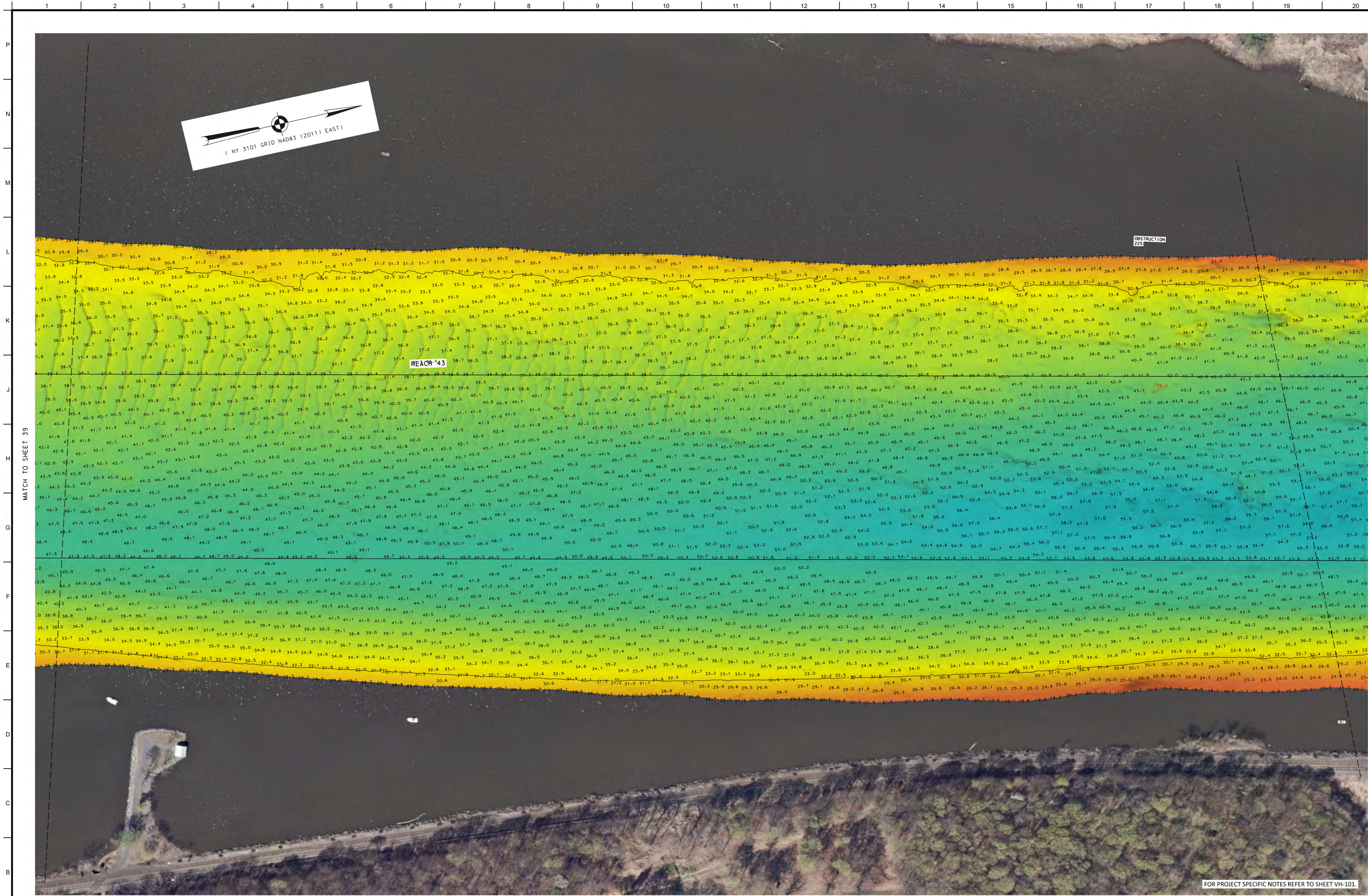
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U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP--SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-139

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DATE OF SURVEY:	07 AUGUST 2023
TO	29 AUGUST 2023
FIELD BOOKS:	2184
2175	
REQ. NO./FILE NO.:	5303/CAW00
PR	BJ
MP	ME

SCALE:	ONE INCH = 100 FEET
DATES OF SURVEY:	07 AUGUST 2023
TO	29 AUGUST 2023
FIELD BOOKS:	2184
2175	
REQ. NO./FILE NO.:	5303/CAW00

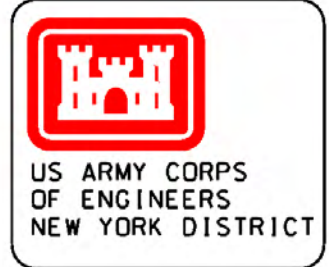
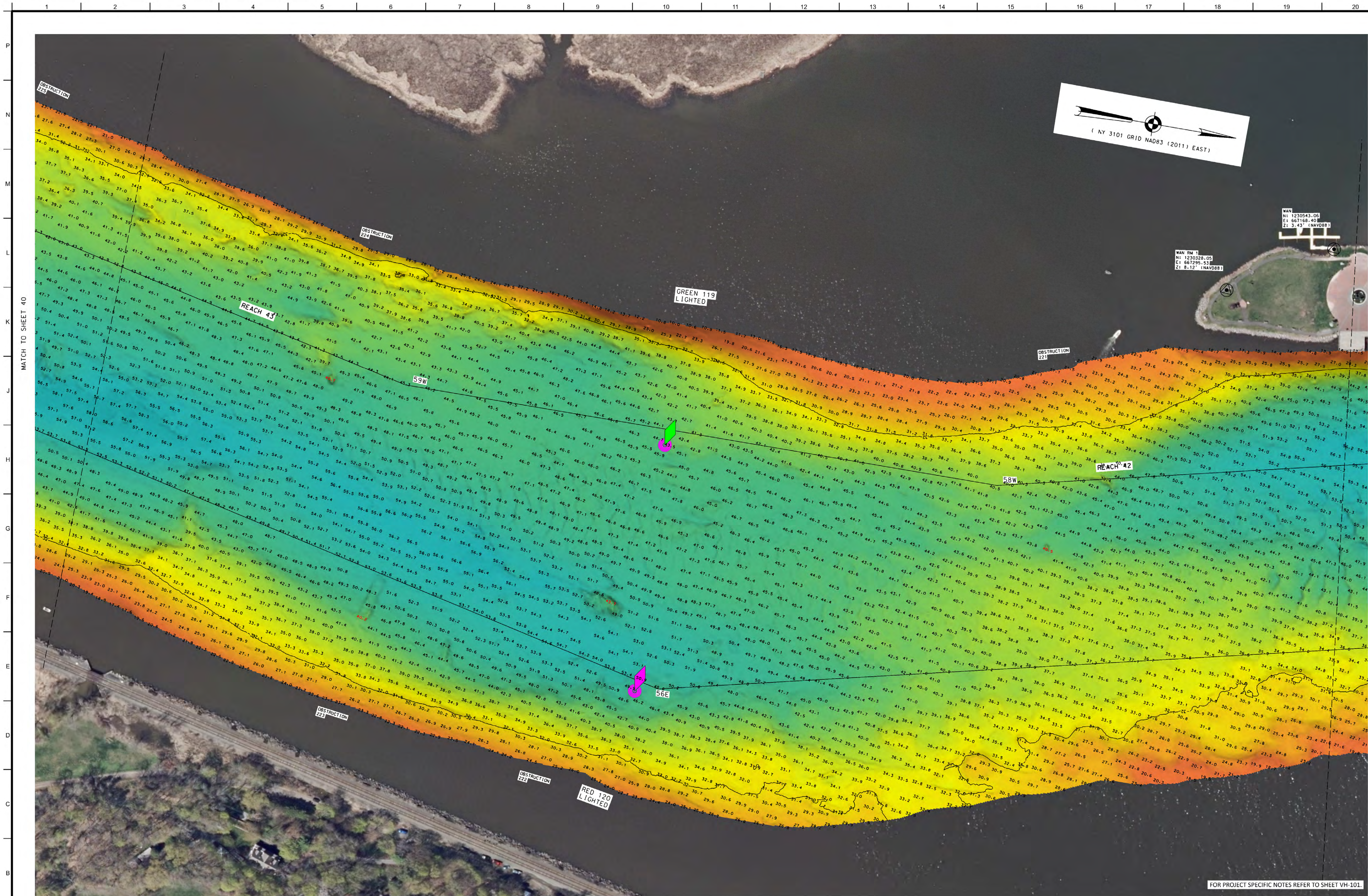
APPROVED:	M. HOLDEN
APPROVED:	R. SMITH
APPROVED:	P. BLADUE
APPROVED:	JL. GRAY
DATE:	29 AUGUST 2023

DEPARTMENT OF THE ARMY	OPERATIONS DIVISION
U.S. ARMY CORPS OF ENGINEERS	SURVEYS AND MAPPING BRANCH
NEW YORK DISTRICT	CENAN-OP-SS
NEW YORK, NEW YORK 10278	

HUDSON RIVER	VH-140
KINGSTON TO WATERFORD	40 OF 123
NEW YORK	
HYDROGRAPHIC CONDITION SURVEY	

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TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: HR-12	BENCHMARK: 01-1
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)
BENCHMARK: TROY DAM 1 (PID:BBDR68)	ELEVATION: 25.32' (NAVD88)



DATE OF SURVEY:	07 AUGUST 2023
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FIELD BOOKS:	2184
2175	
REO. NO./FILE NO.:	5303/CAWOOD

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DEPARTMENT OF THE ARMY	U.S. ARMY CORPS OF ENGINEERS	NEW YORK DISTRICT	NEW YORK, NEW YORK 10278
OPERATIONS DIVISION	SURVEYS AND MAPPING BRANCH	CENAN-OP-SS	

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OPERATIONS DIVISION	SURVEYS AND MAPPING BRANCH	CENAN-OP-SS	

HUDSON RIVER	KINGSTON TO WATFORD	NEW YORK
HYDROGRAPHIC CONDITION SURVEY		

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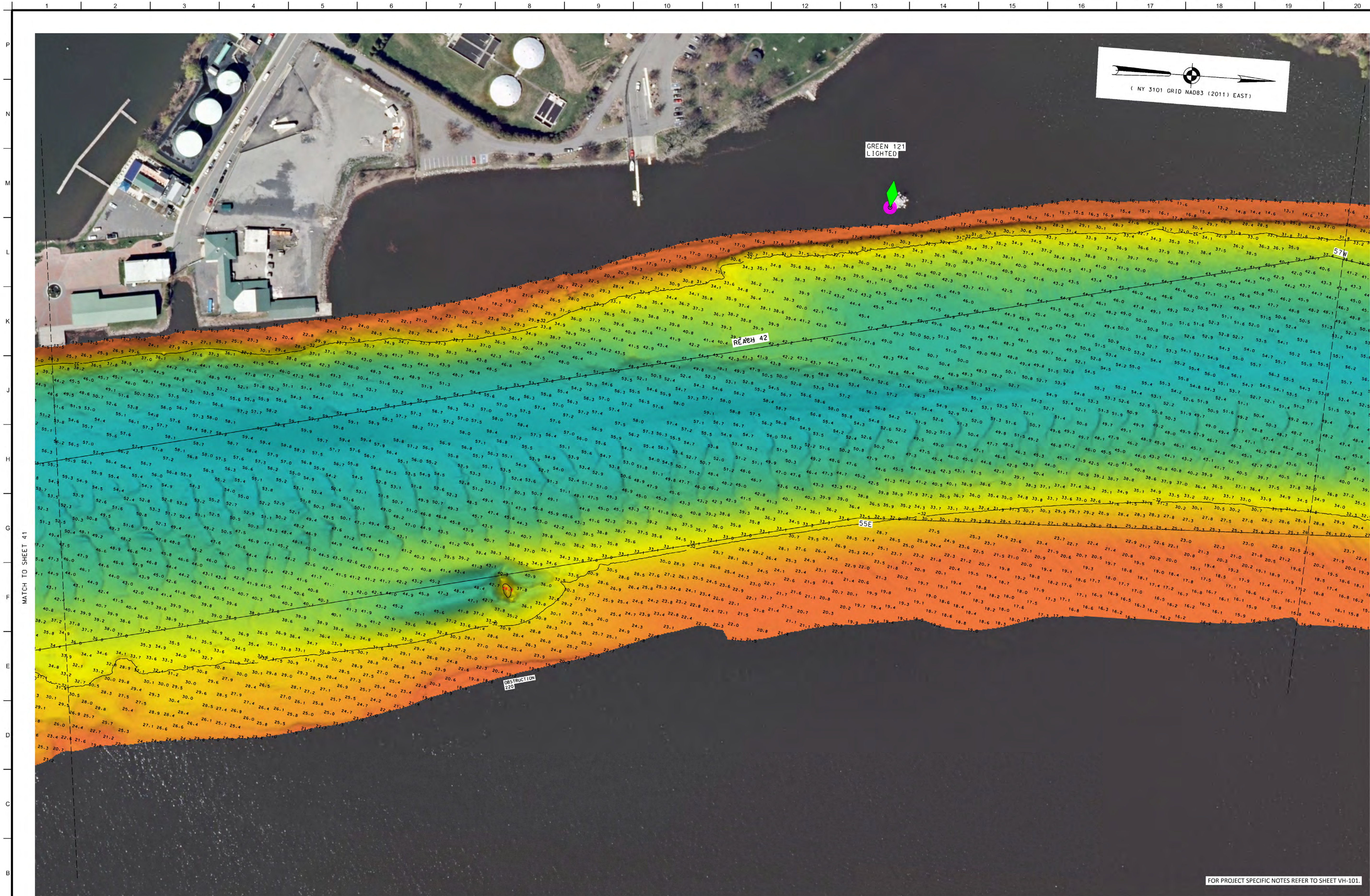
MCKIM & CREED
243 NORTH FRONT STREET
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TELEPHONE: (910) 343-1048
FAX: (910) 343-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

LOCAL CONTROL DATA

BENCHMARK: HR-12	BENCHMARK: 01-1
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)

NSRS BENCHMARK

BENCHMARK: TROY DAM 1 (PID:BBDR68)
ELEVATION: 25.32' (NAVD88)



0 100' 200'

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NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

LOCAL CONTROL DATA		NSRS BENCHMARK
BENCHMARK: HR-12	BENCHMARK: 01-1	BENCHMARK: TROY DAM 1 (PID:BBDR68)
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2175	
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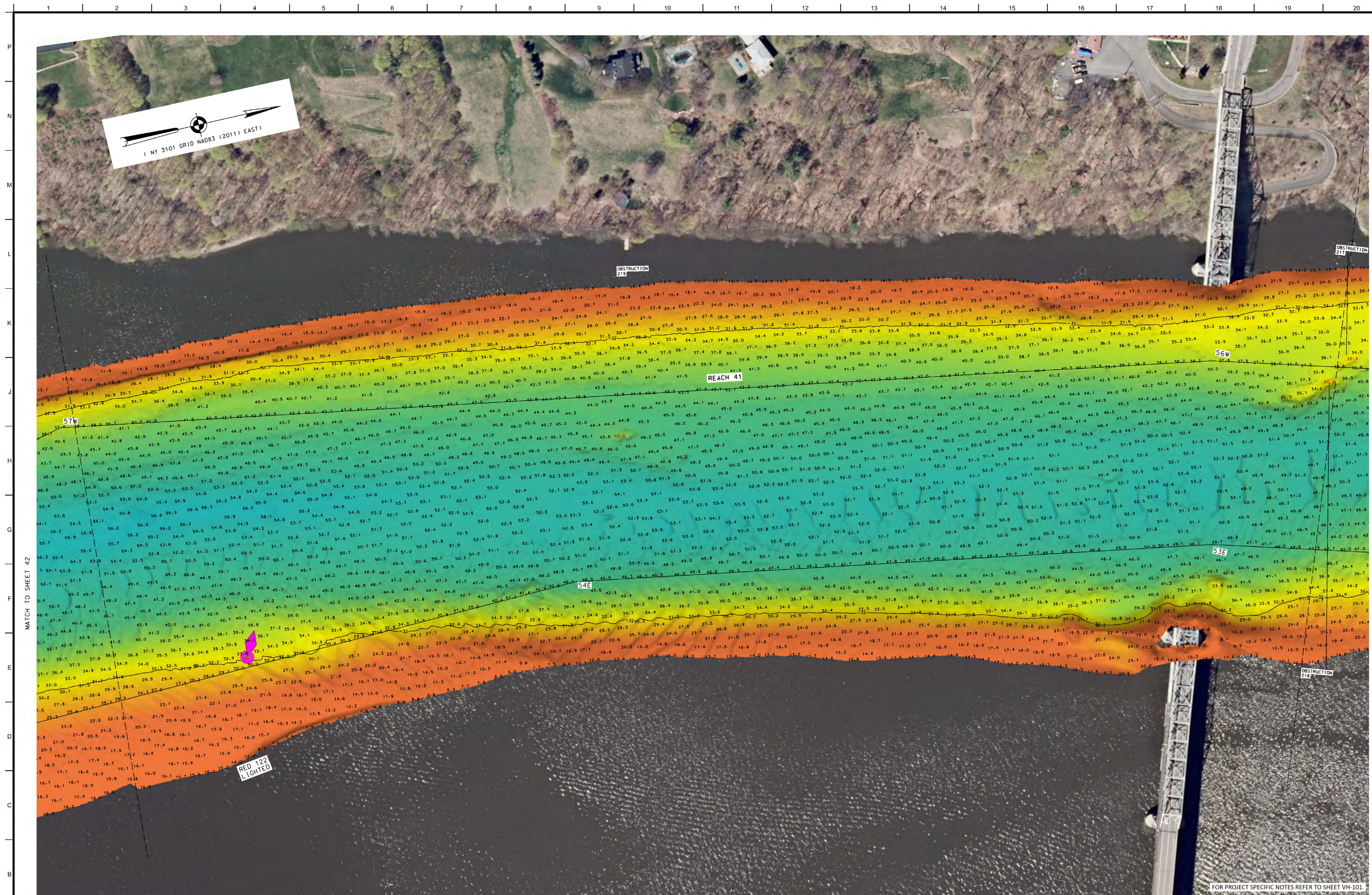
SCALE:	ONE INCH = 100 FEET
FIELD BOOKS:	2184
2175	
DATE:	29 AUGUST 2023


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CENAN-OP-SS	


HUDSON RIVER	KINGSTON TO WATERFORD
NEW YORK	
HYDROGRAPHIC CONDITION SURVEY	

VH-142
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TELEPHONE: (910) 343-1048
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NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

LOCAL CONTROL DATA		NSRS BENCHMARK	
BENCHMARK: HR-12	BENCHMARK: 01-1	BENCHMARK: TROY DAM 1 (PID:BBDR68)	
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US ARMY CORPS
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NEW YORK DISTRICT

						B J
						M H
					P R	
					M P	

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DATE:	29 AUGUST 2023	

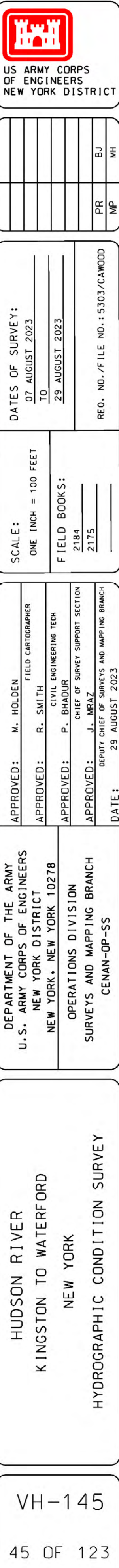
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U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

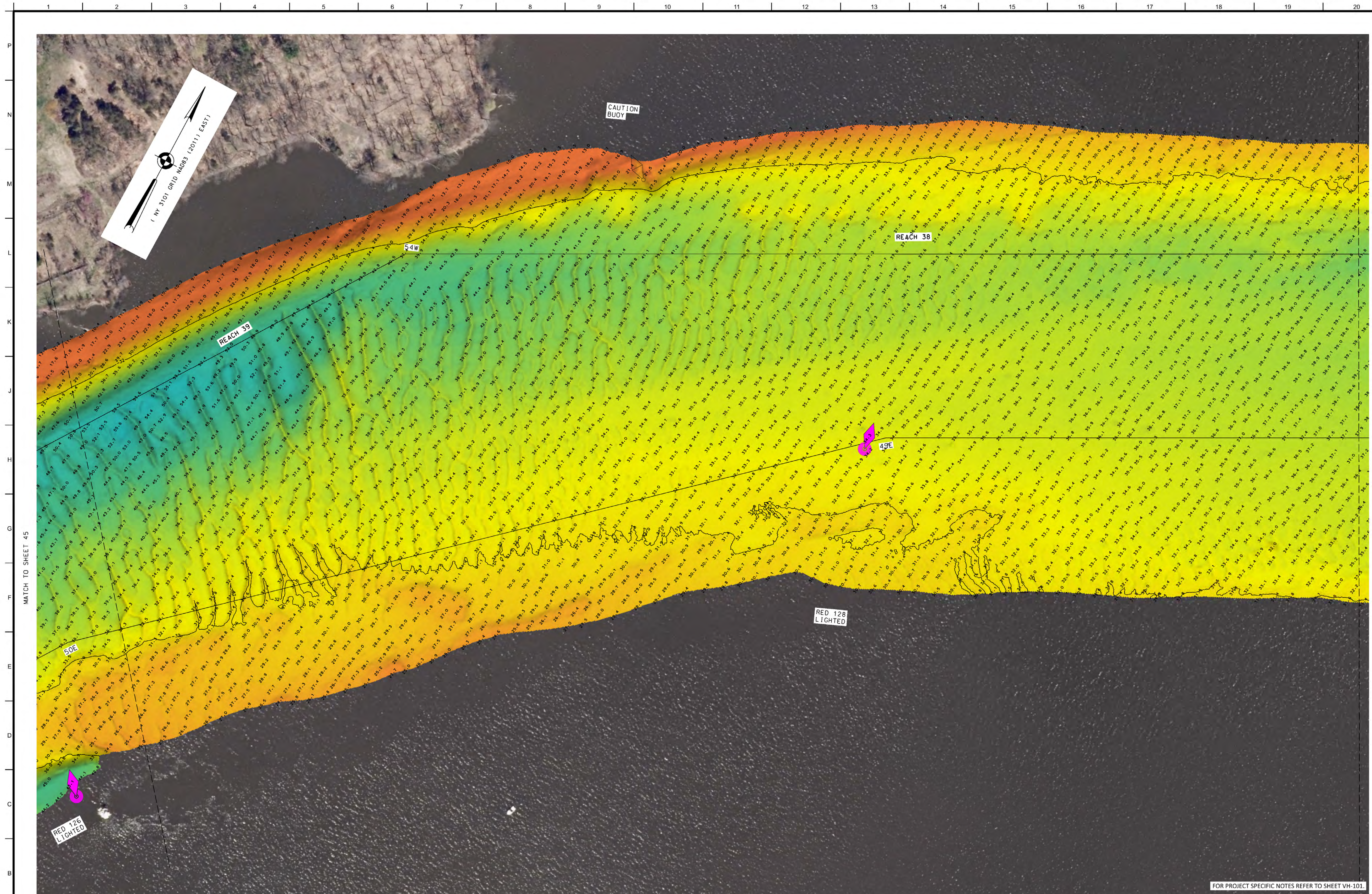
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP--SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-143

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FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

LOCAL CONTROL DATA		NSRS BENCHMARK	
BENCHMARK: HR-12	BENCHMARK: Q1-1	BENCHMARK: TROY DAM 1 (PID:BBDR68)	
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)	



US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

						B J	M H
						P R	M P

DATES OF SURVEY :
 07 AUGUST 2023
 TO
 29 AUGUST 2023

REG. NO. / FILE NO. : 5303/CAW000

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

2184	_____
2175	_____

APPROVED:	M. HOLDEN	FILLO CARTOGRAPHER
APPROVED:	R. SMITH	CIVIL ENGINEERING TECH
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	J. WRAZ	DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE:	29 AUGUST 2023	

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

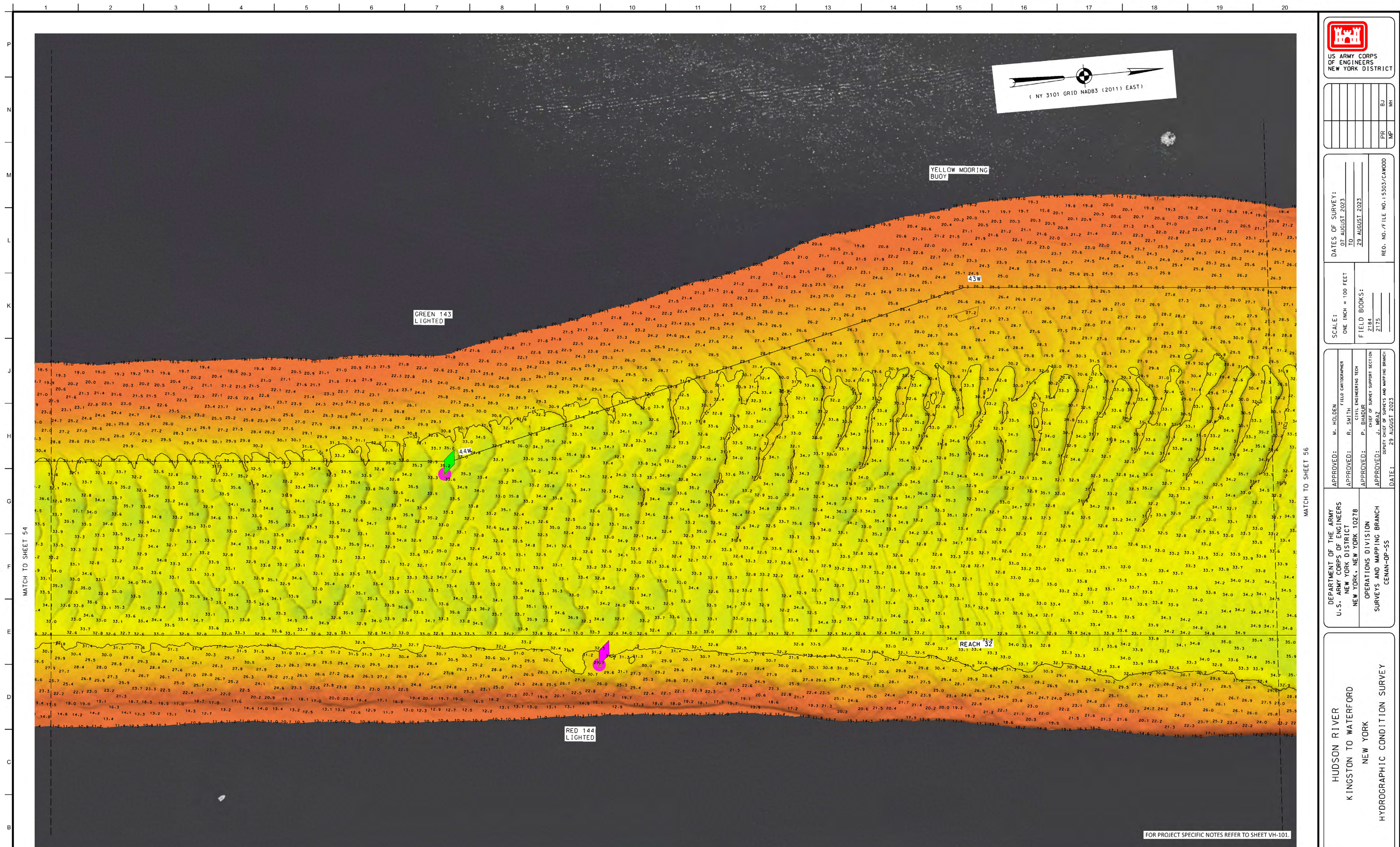
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

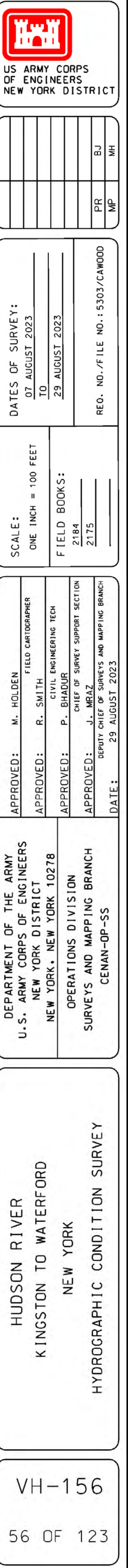
HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-146

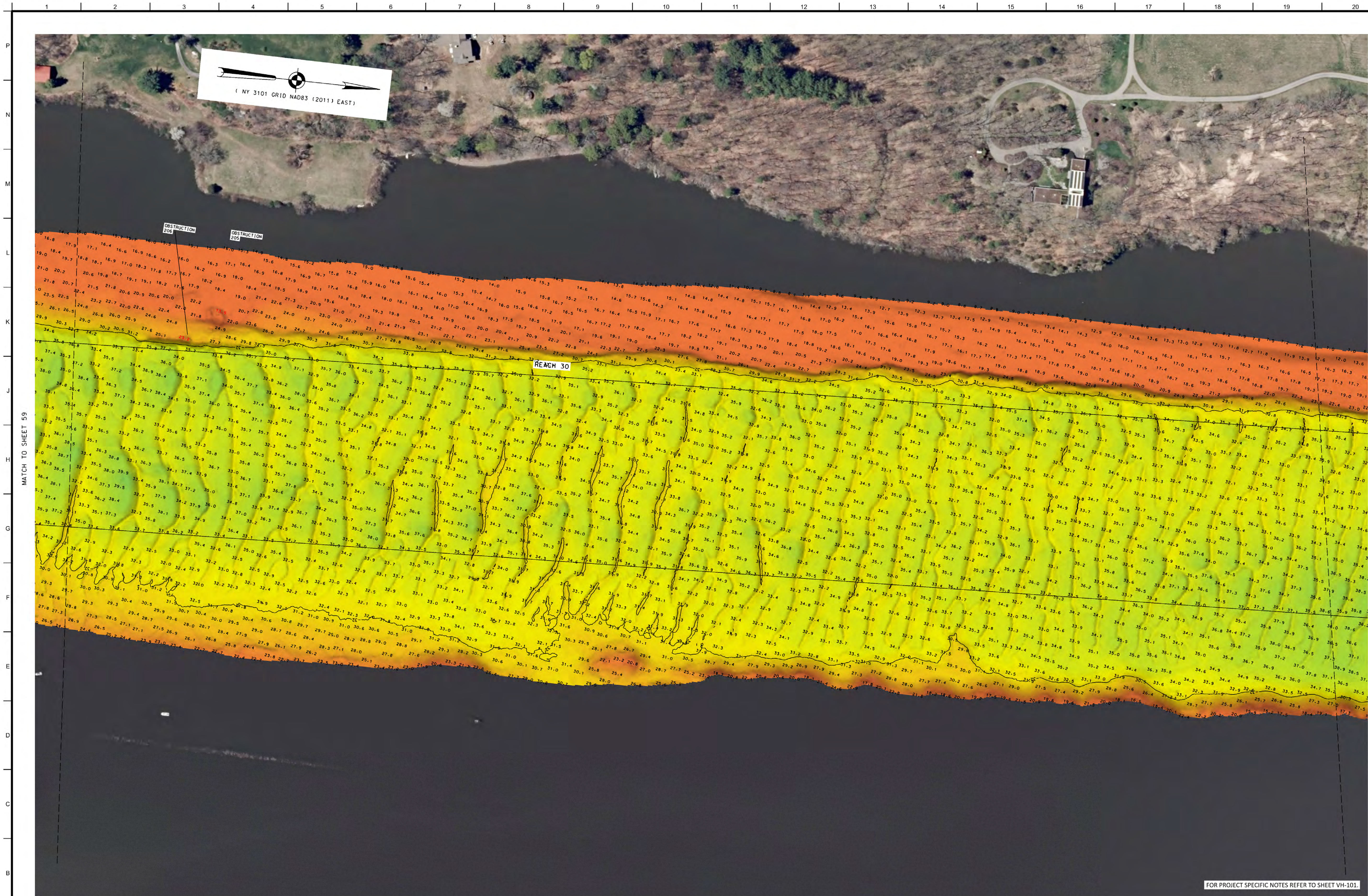
46 OF 123

FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.





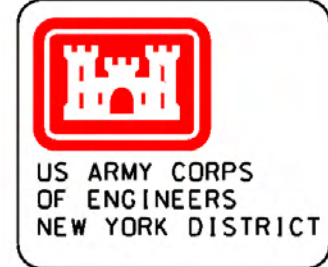




0 100' 200'

MCKIM & CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

LOCAL CONTROL DATA		NSRS BENCHMARK
BENCHMARK: HR-12	BENCHMARK: 01-1	BENCHMARK: TROY DAM 1 (PID:BBD68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)



DATE OF SURVEY:	07 AUGUST 2023
TO	29 AUGUST 2023
FIELD BOOKS:	2184
REQ. NO./FILE NO.:	5303/CAWOOD

SCALE:	ONE INCH = 100 FEET
FIELD BOOKS:	2184
REQ. NO./FILE NO.:	5303/CAWOOD

APPROVED:	M. HOLDEN
APPROVED:	R. SMITH
APPROVED:	P. BLAUG
APPROVED:	J. MRAZ

DEPARTMENT OF THE ARMY	U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT	NEW YORK, NEW YORK 10278
OPERATIONS DIVISION	SURVEYS AND MAPPING BRANCH
CENAN-OP-SS	

HUDSON RIVER	KINGSTON TO WATERFORD
NEW YORK	
HYDROGRAPHIC CONDITION SURVEY	

VH-160
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