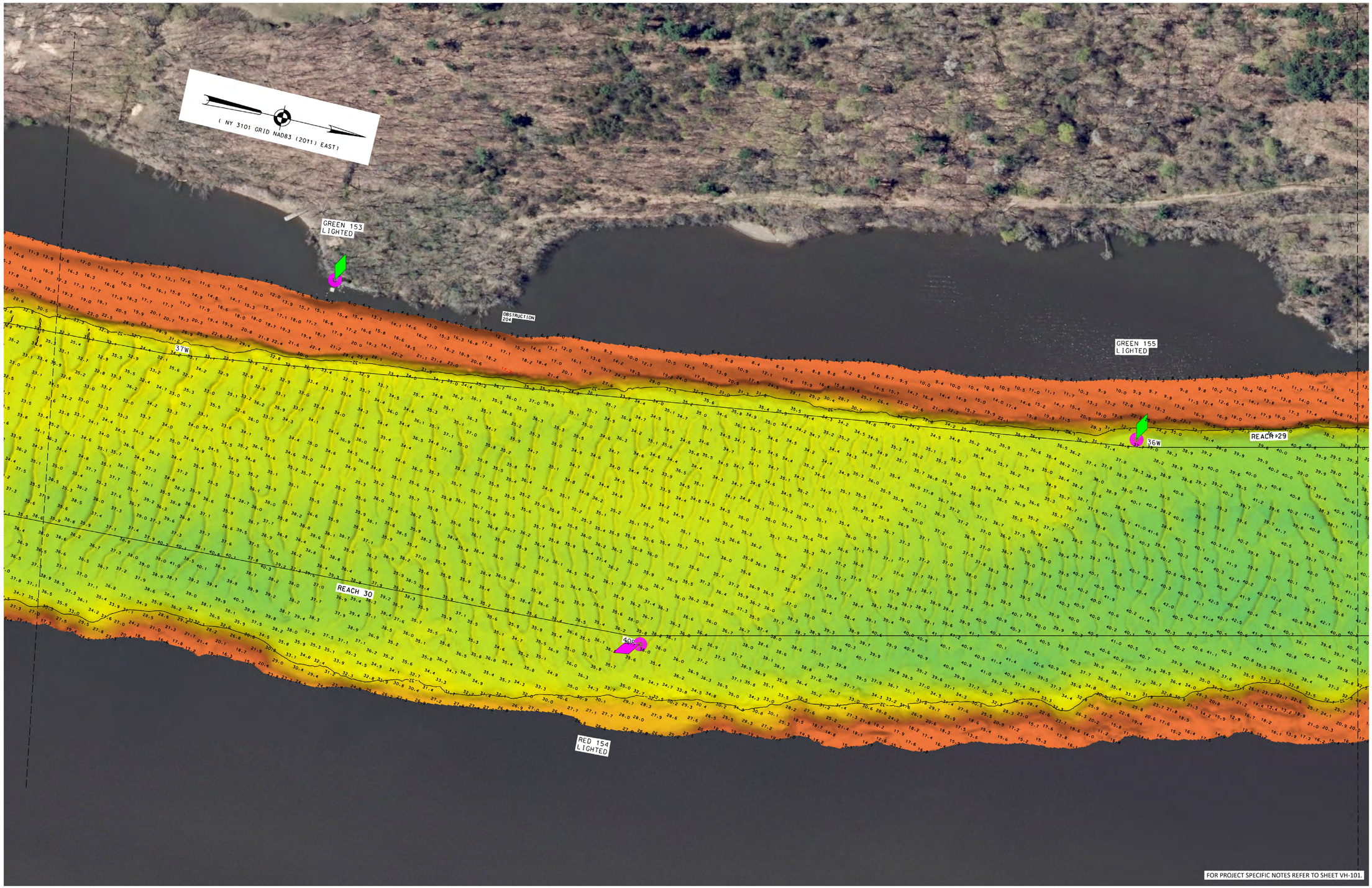


MATCH TO SHEET 60

MATCH TO SHEET 62

0 100' 200'

McKIM&CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-0408
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

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

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 15303/CAWOOD

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

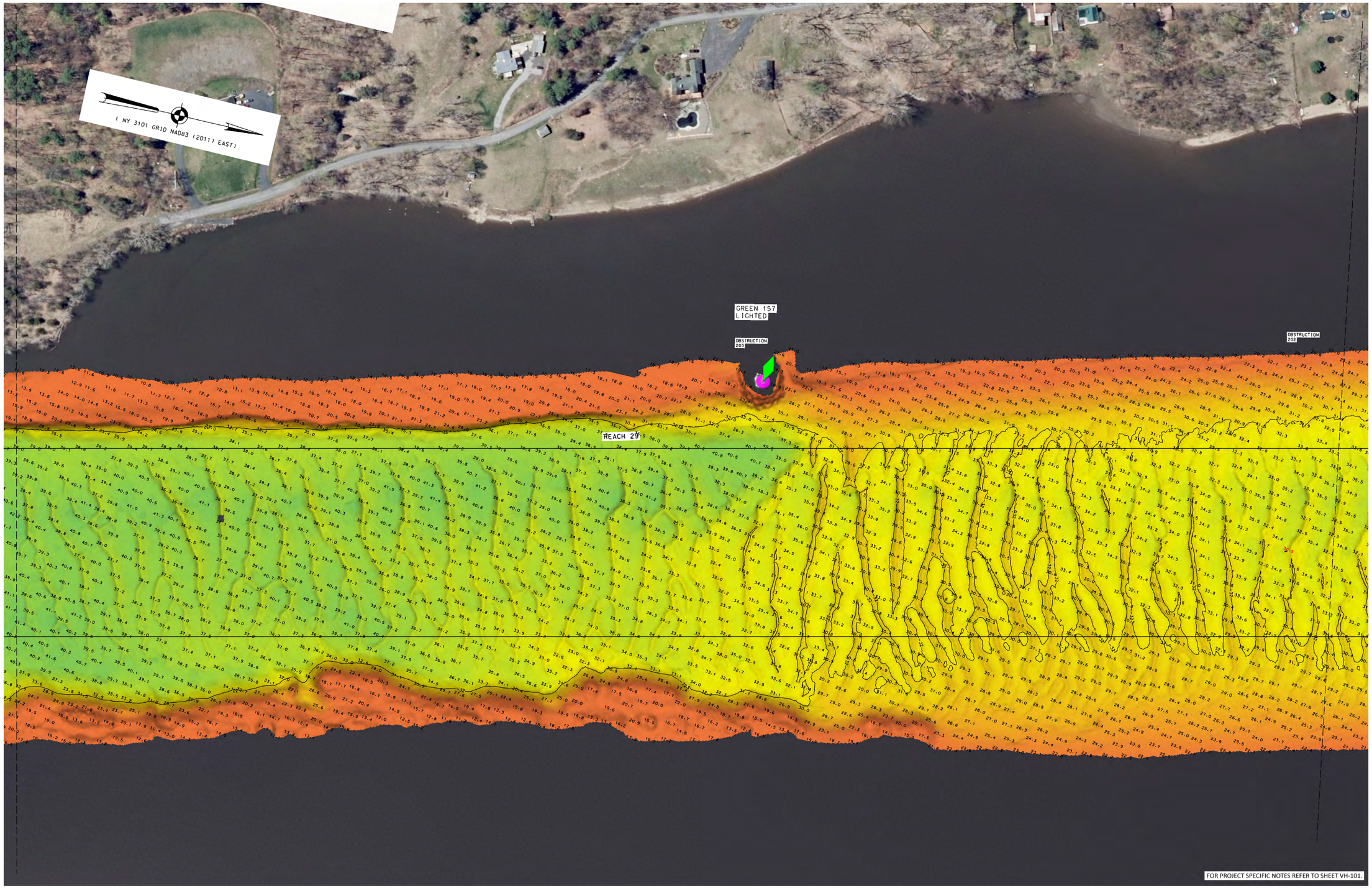
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-161

61 OF 123



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: 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

	PR BJ
	MP MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

REG. NO./FILE NO.: 5303/CAWOOD

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

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

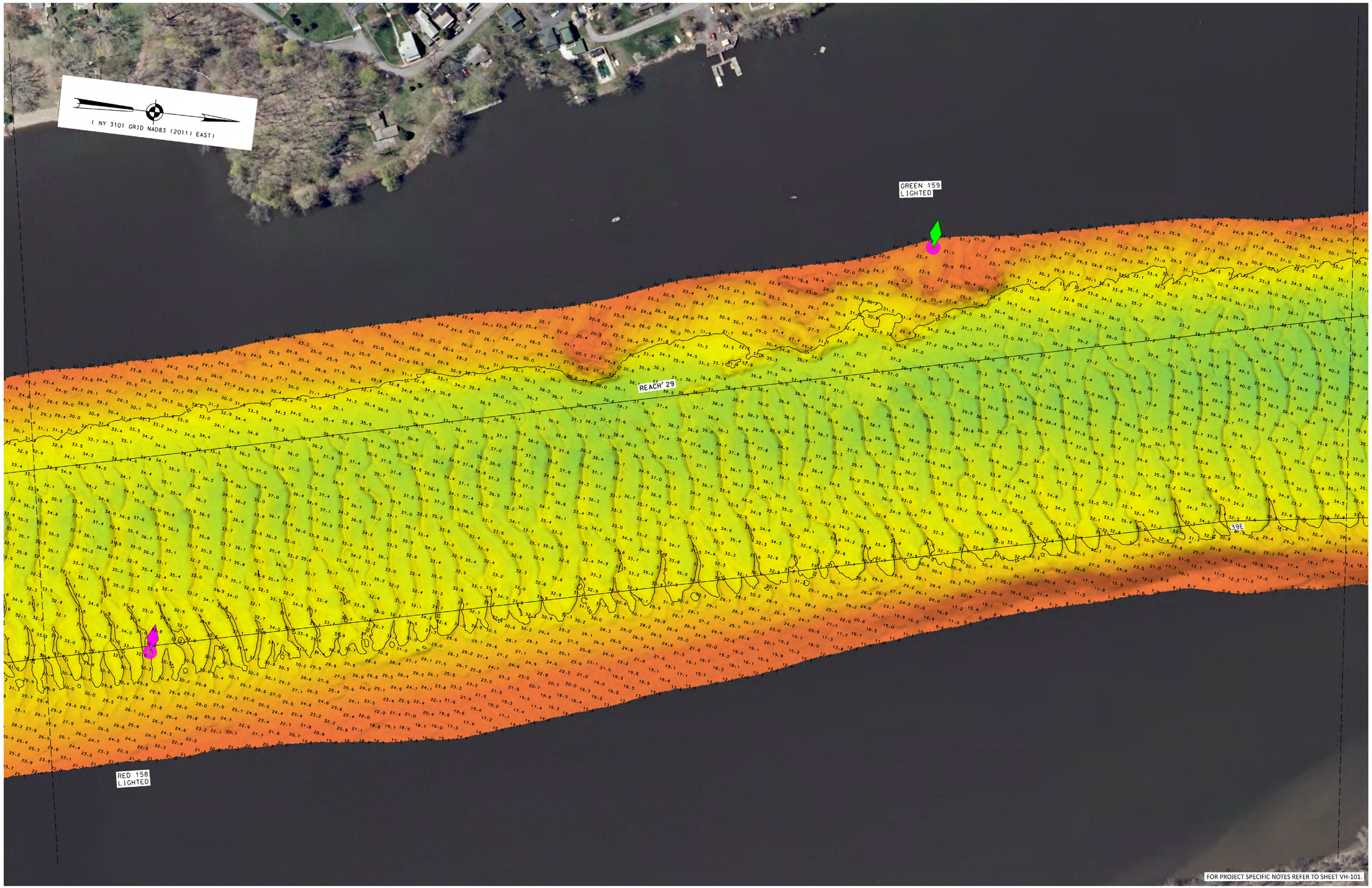
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-162

62 OF 123



MATCH TO SHEET 62

MATCH TO SHEET 64

0 100' 200'

McKIM&CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-9282
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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

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

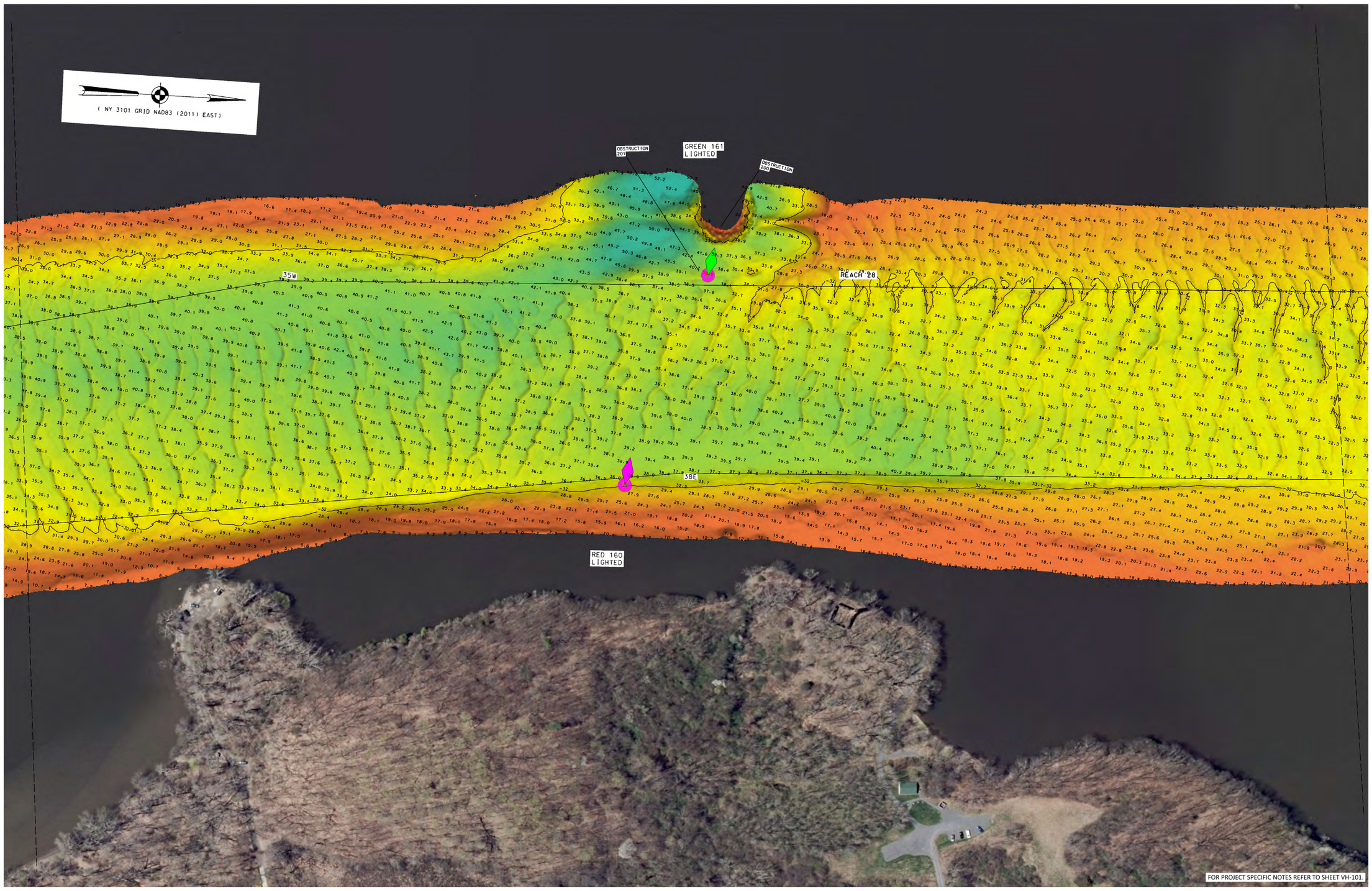
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-163

63 OF 123



MATCH TO SHEET 63

MATCH TO SHEET 65

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

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	BJ
	MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

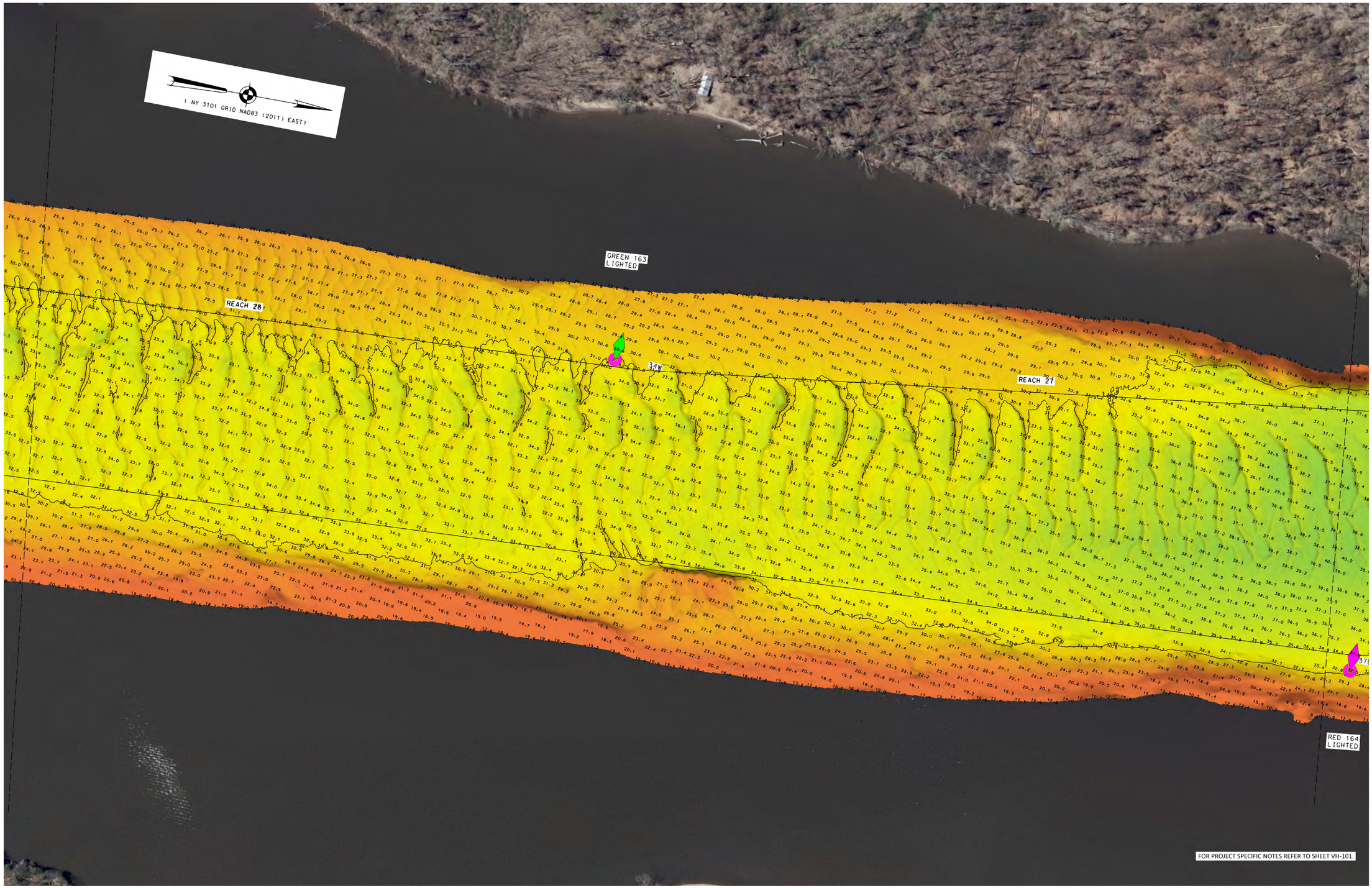
APPROVED: M. HOLDEN — FIELD CARTOGRAPHER
APPROVED: R. SMITH — CIVIL ENGINEERING TECH
APPROVED: P. BHADURI — CHIEF OF SURVEY SUPPORT SECTION
APPROVED: J. MIRAZ — DEPUTY CHIEF OF GRAPHICS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

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-164



MATCH TO SHEET 64

MATCH TO SHEET 66

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: 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

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIRAZ CHOWDHURY, DEPUTY CHIEF OF GRAPHICS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

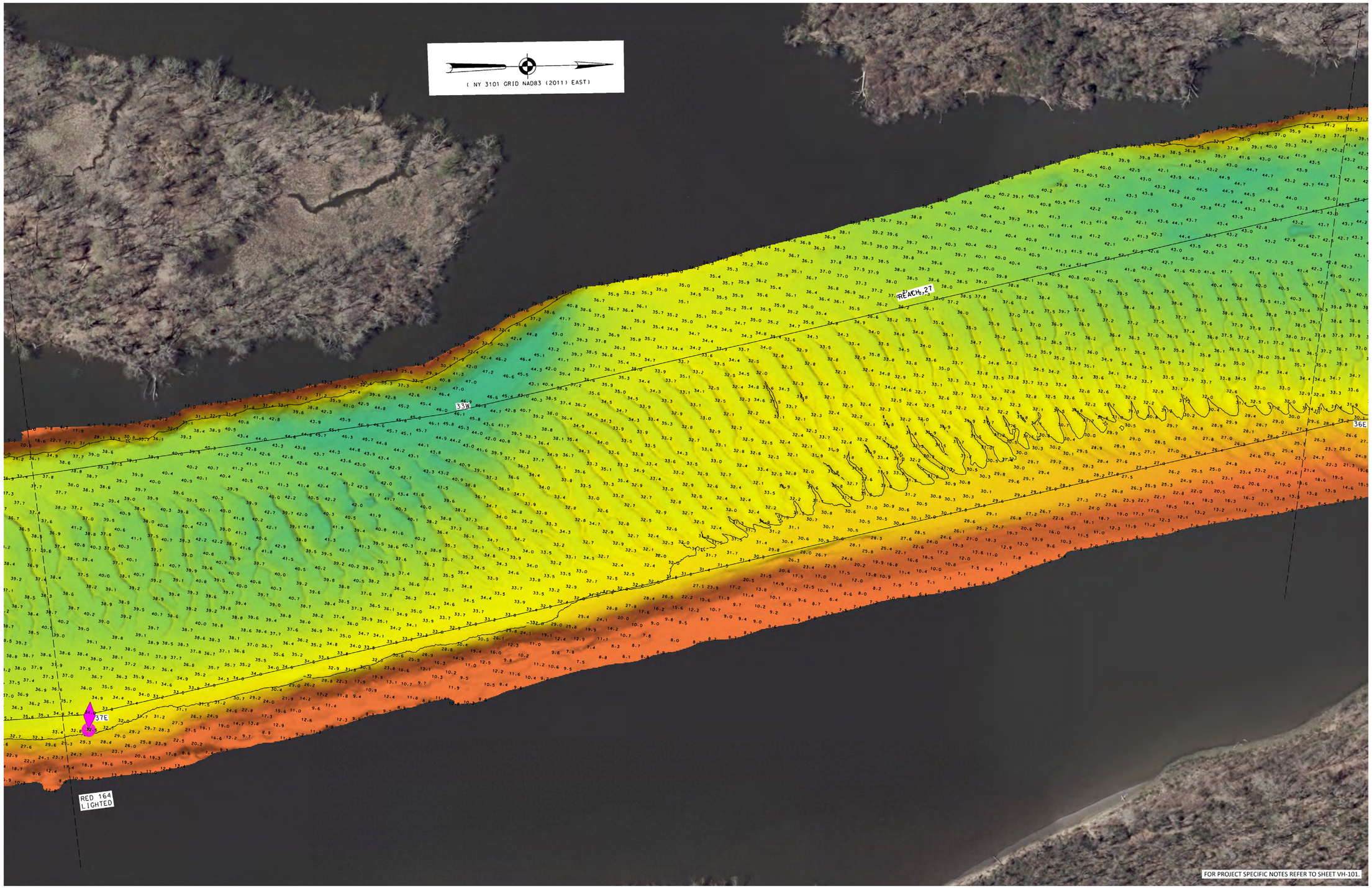
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-165

65 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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

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

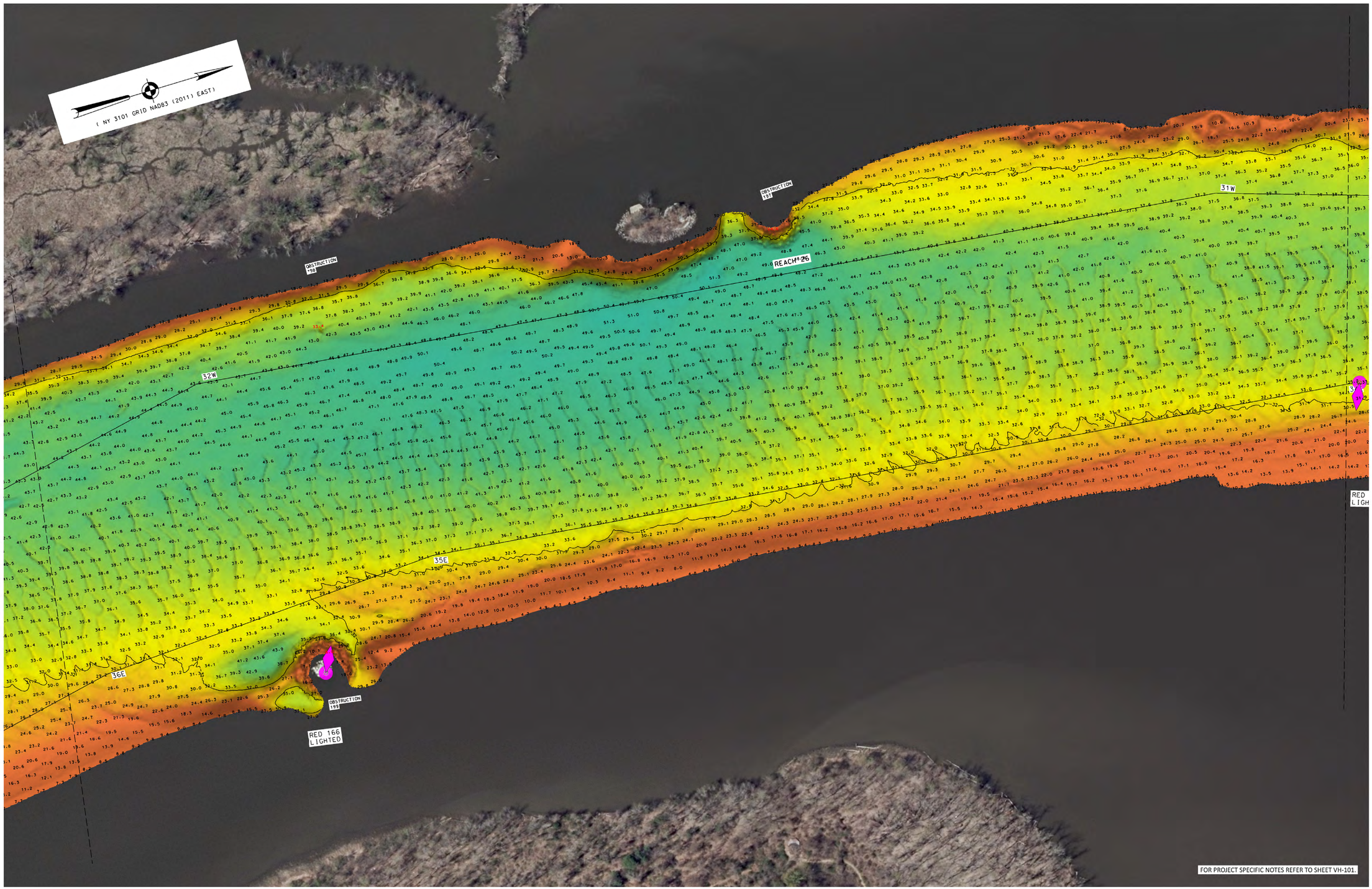
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-166

66 OF 123



MATCH TO SHEET 66

MATCH TO SHEET 68

0 100' 200'

McKIM&CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-9282
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)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

REG. NO./FILE NO.: 5303/CAWOOD

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

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

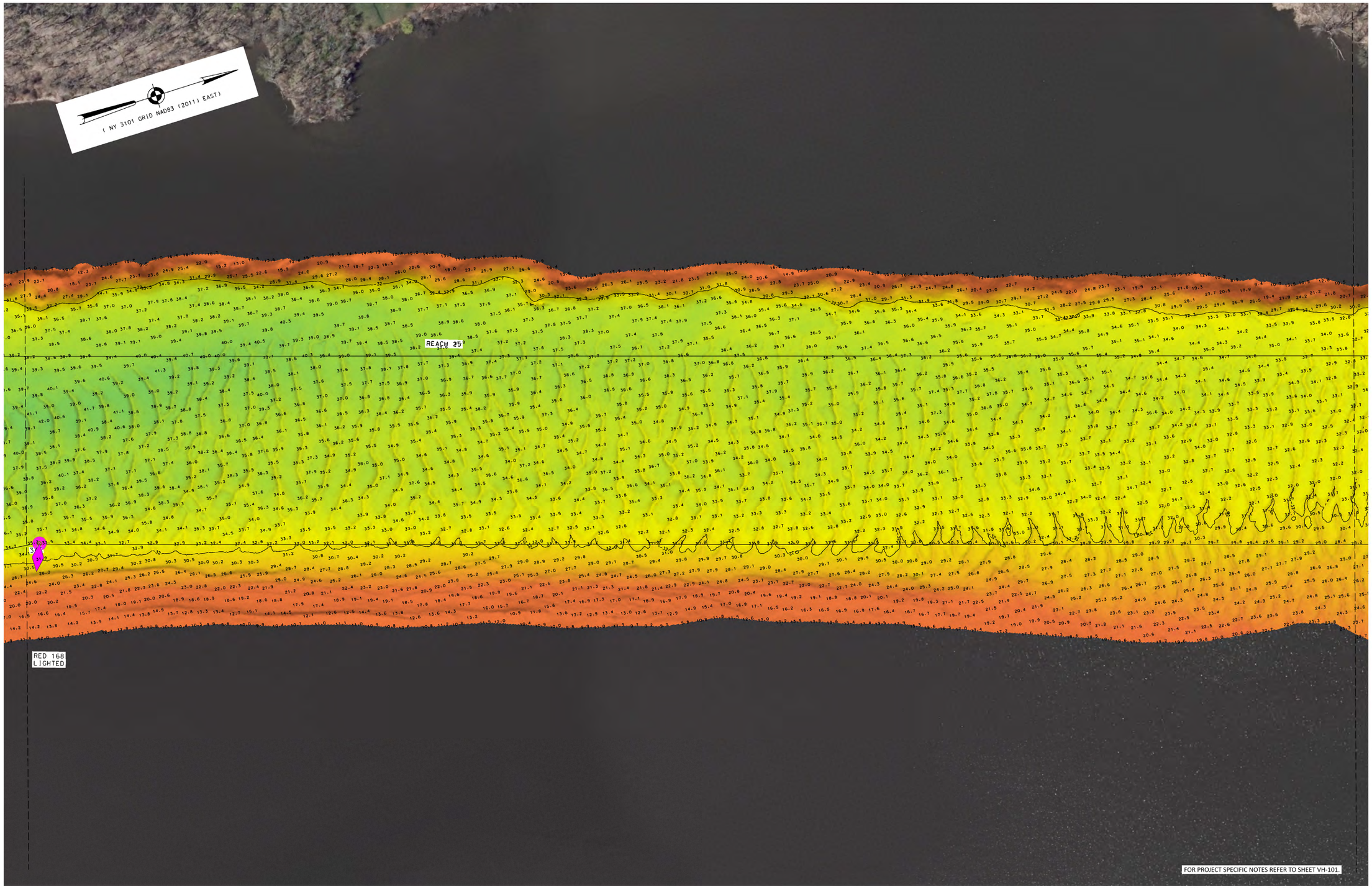
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-167

67 OF 123



MATCH TO SHEET 67

MATCH TO SHEET 69

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:BBDR68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

APPROVED:	M. HOLDEN	FIELD CARTOGRAPHER
APPROVED:	R. SMITH	CIVIL ENGINEERING TECH
APPROVED:	P. BRADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE ARAZ	DEPUTY CHIEF OF GRAPHICS AND MAPPING BRANCH
DATE:	29 AUGUST 2023	

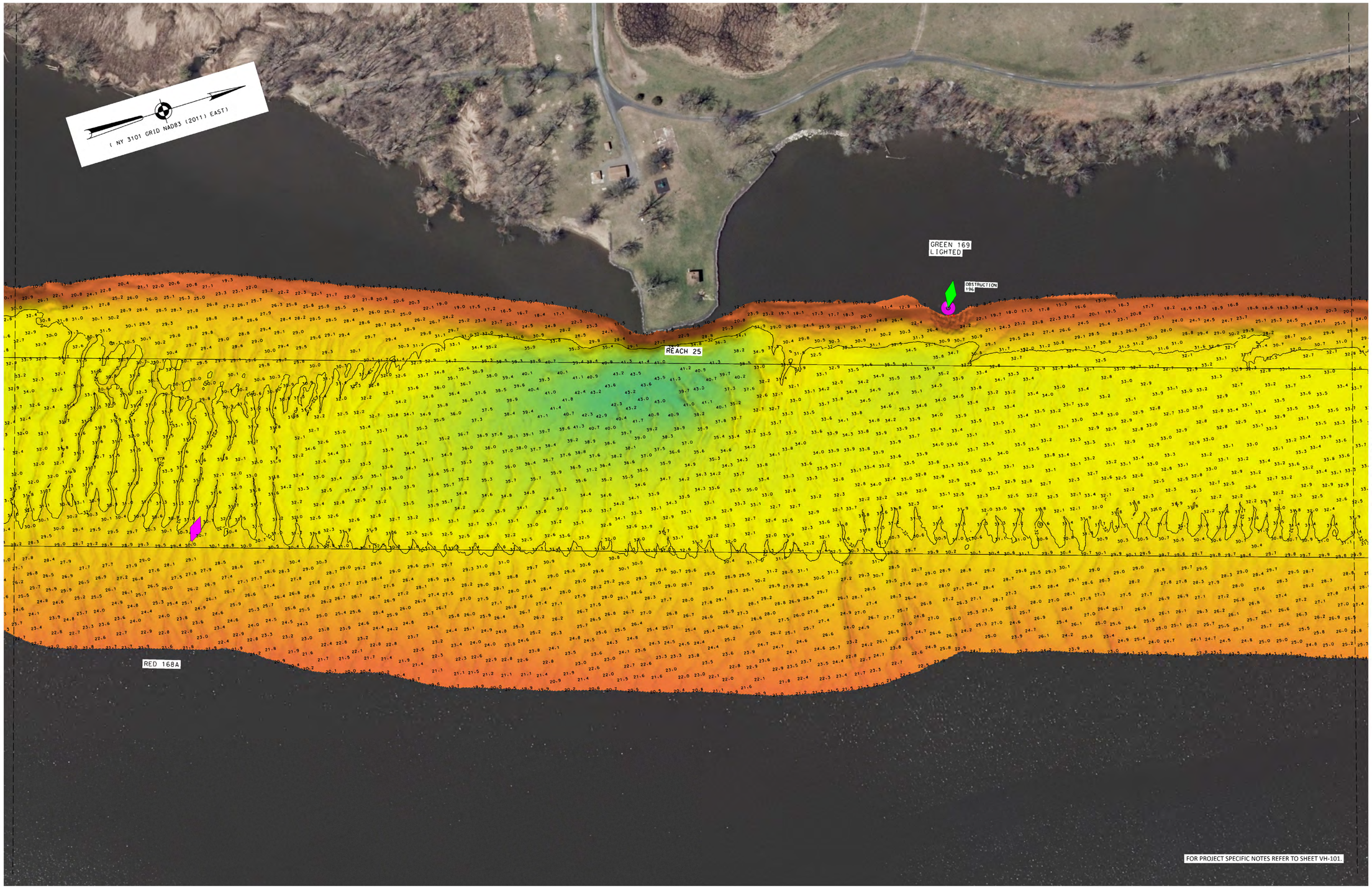
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-168

68 OF 123



MATCH TO SHEET 68

MATCH TO SHEET 70

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:BBDR68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

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

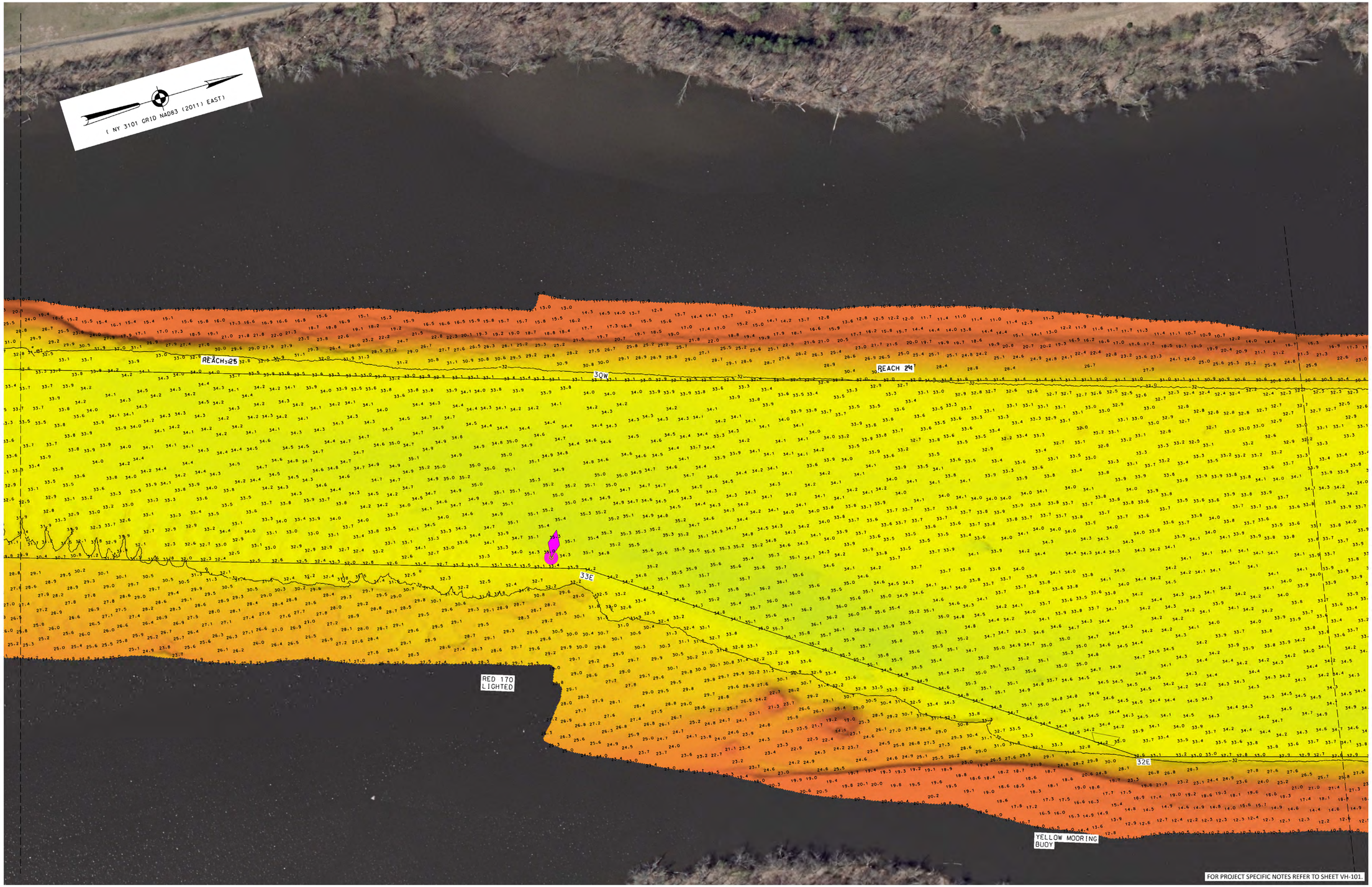
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-169

69 OF 123



0 100' 200'

McKIM&CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-0282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

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

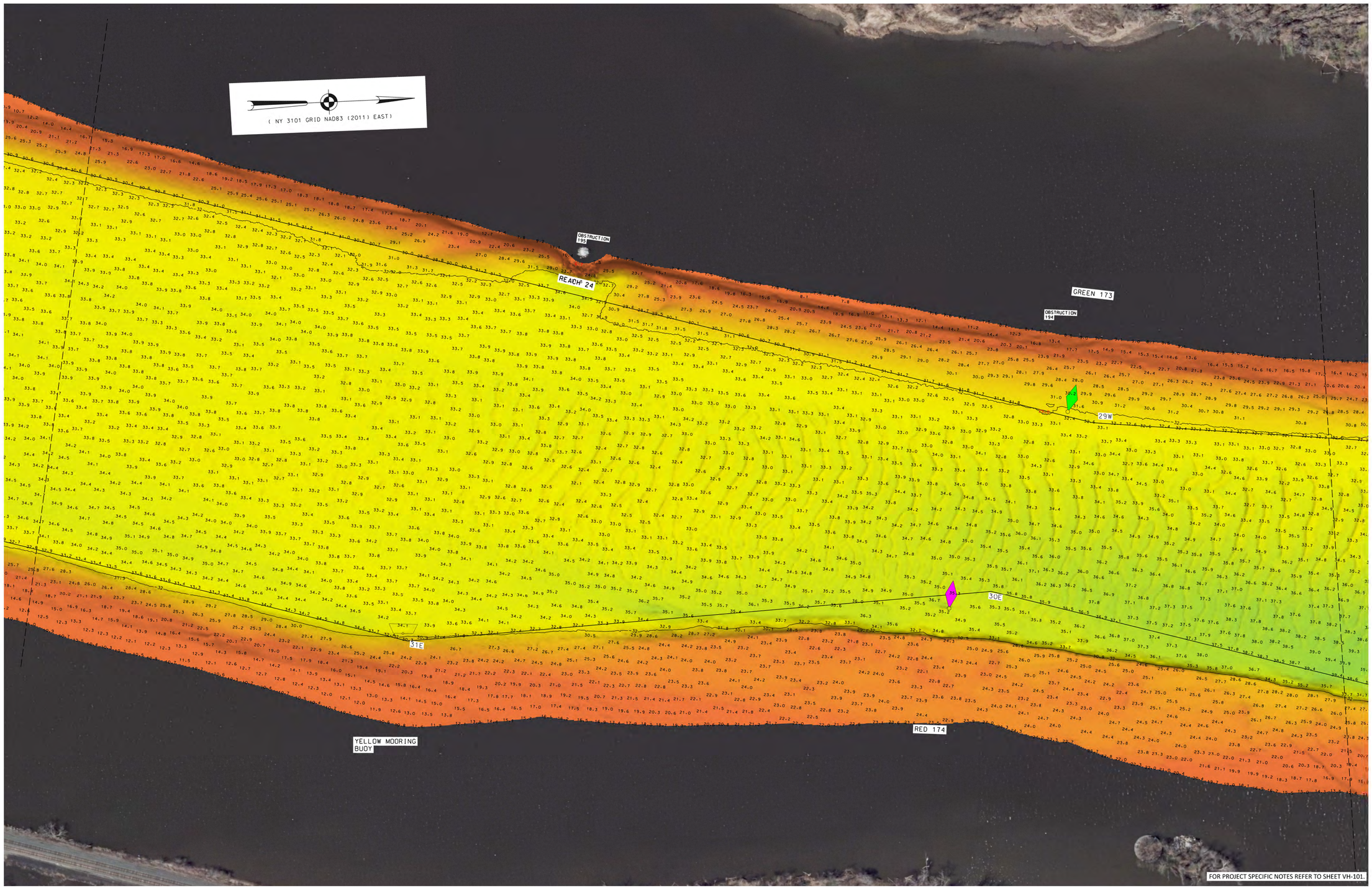
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-170

70 OF 123



MATCH TO SHEET 70

MATCH TO SHEET 72

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

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

						BJJ	MH
						PR	MP

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 15303/CAWOOD

APPROVED: M. HOLDEN — FIELD CARTOGRAPHER
APPROVED: R. SMITH — CIVIL ENGINEERING TECH
APPROVED: P. BHADURI — CHIEF OF SURVEY SUPPORT SECTION
APPROVED: M. MEAZ — CHIEF, OPERATIONS DIVISION
DEPUTY FOR PROJECTS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

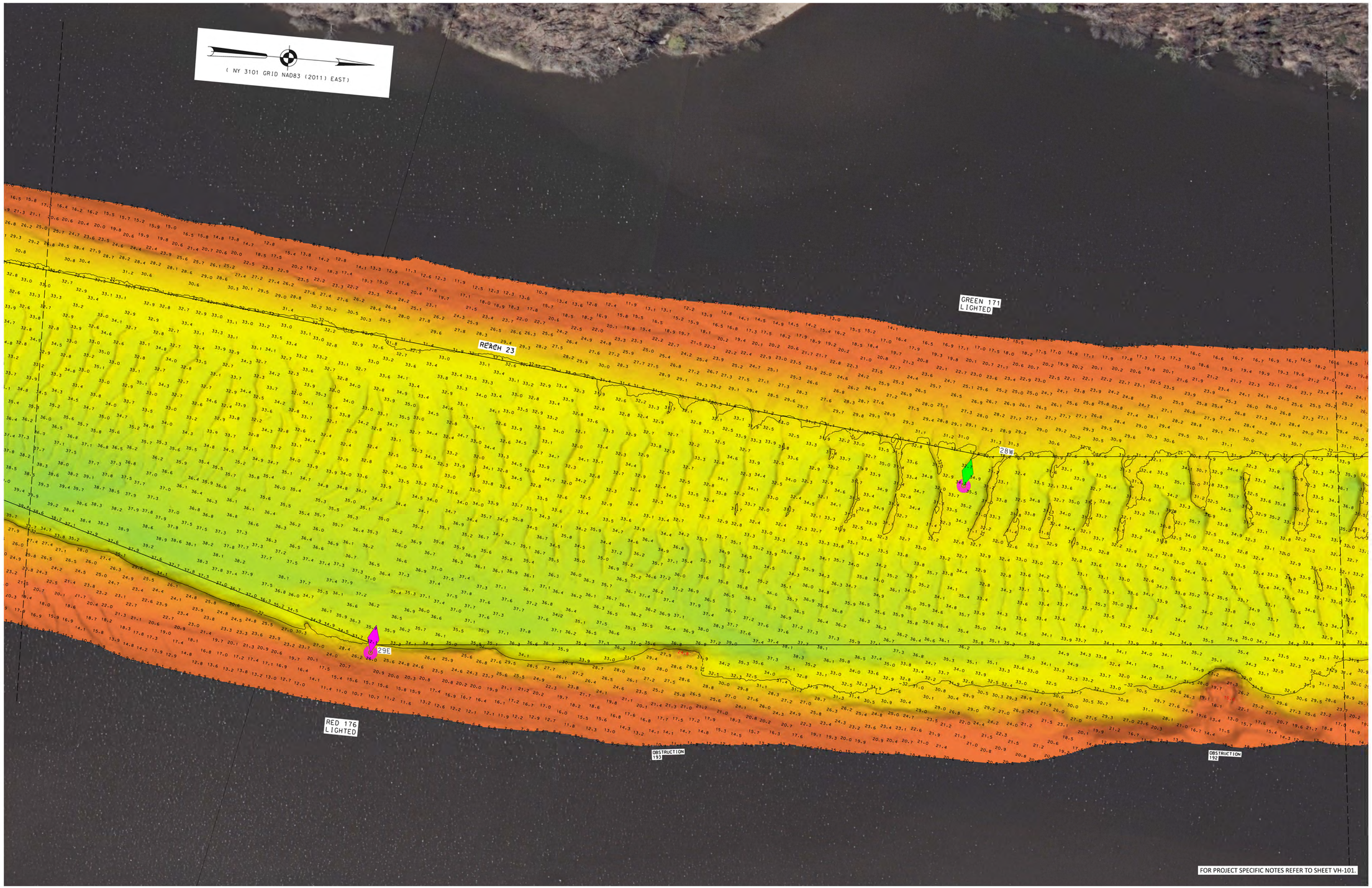
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-171

71 OF 123



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-12	BENCHMARK: O1-1
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)

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

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

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

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE GRAPHICS AND MAPPING BRANCH
DEPTH UNITS: FEET
DATE: 29 AUGUST 2023

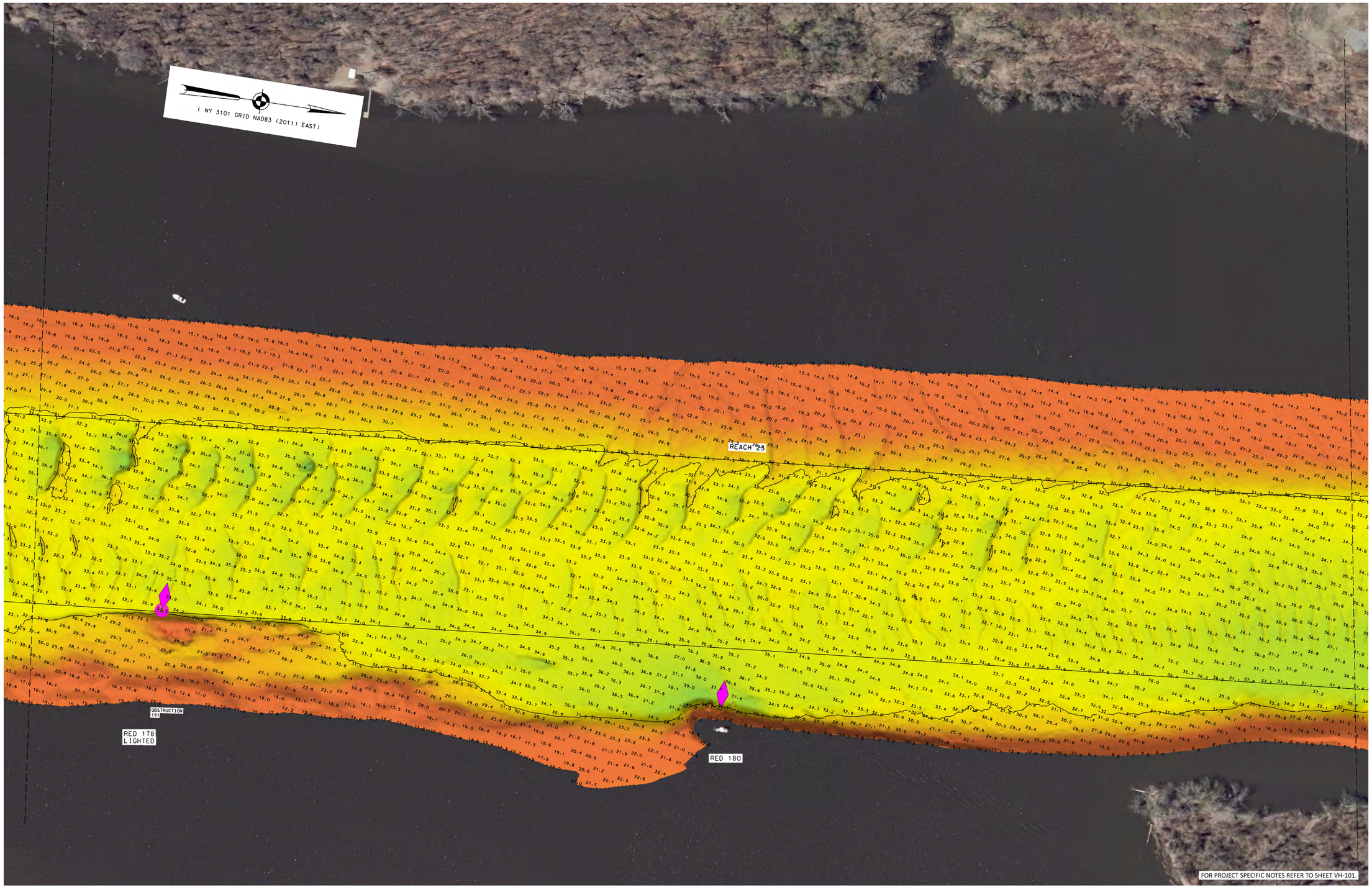
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-172

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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:BBDR68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

REG. NO./FILE NO.: 5303/CAWOOD

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2183
2175

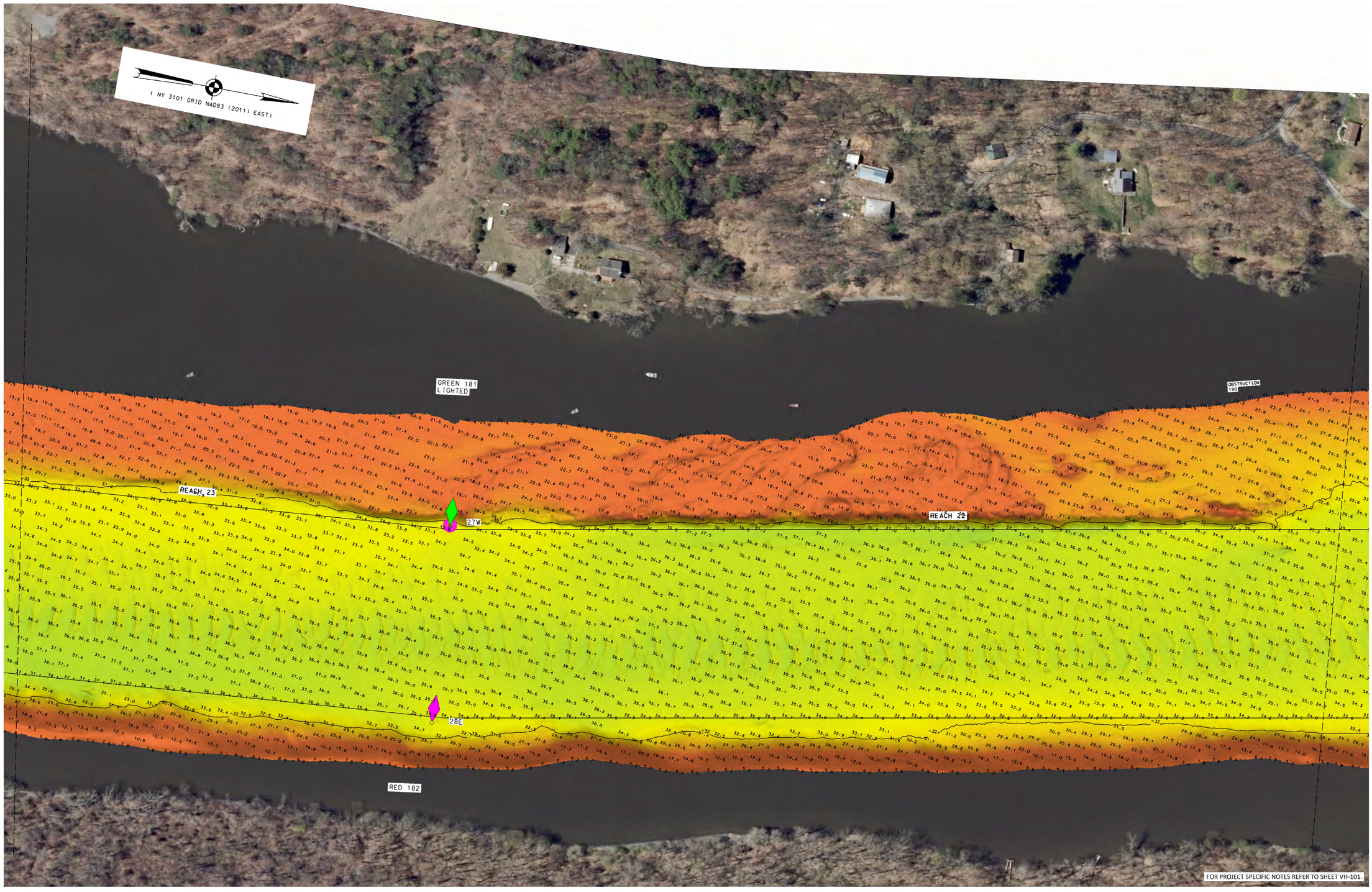
APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIRAZ CHOWDHURY, DEPUTY CHIEF, OPERATIONS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

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-173



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: 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

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

PR BJ
MP MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

REG. NO./FILE NO.: 5303/CAWOOD

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

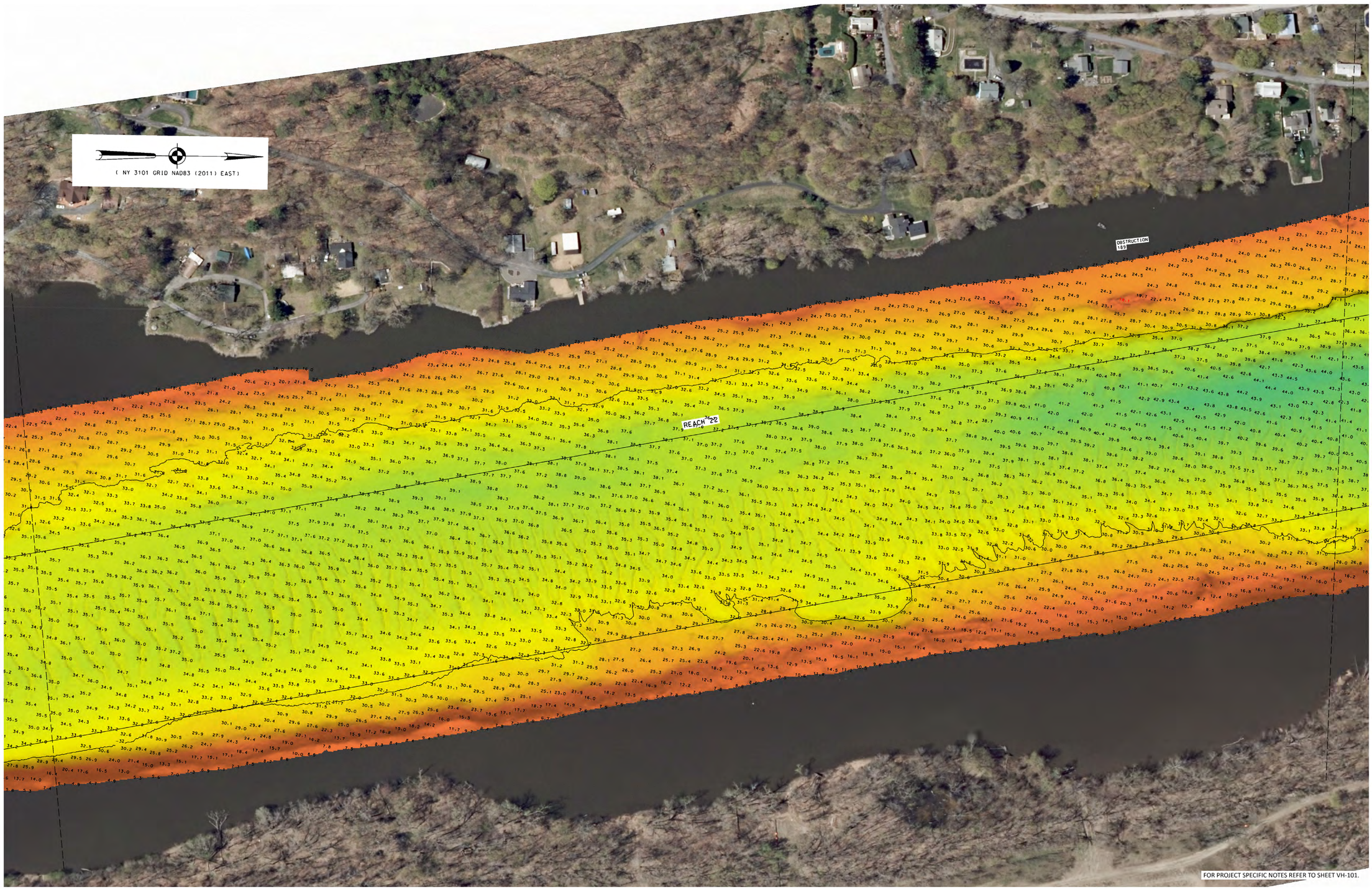
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-174

74 OF 123



MATCH TO SHEET 74

MATCH TO SHEET 76

0 100' 200'

McKIM&CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1C48
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

LOCAL CONTROL DATA	
BENCHMARK: HR-12	BENCHMARK: O1-1
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: M. RAZ, DEPUTY CHIEF, GEOSPATIAL SCIENCES AND MAPPING BRANCH
DATE: 29 AUGUST 2023

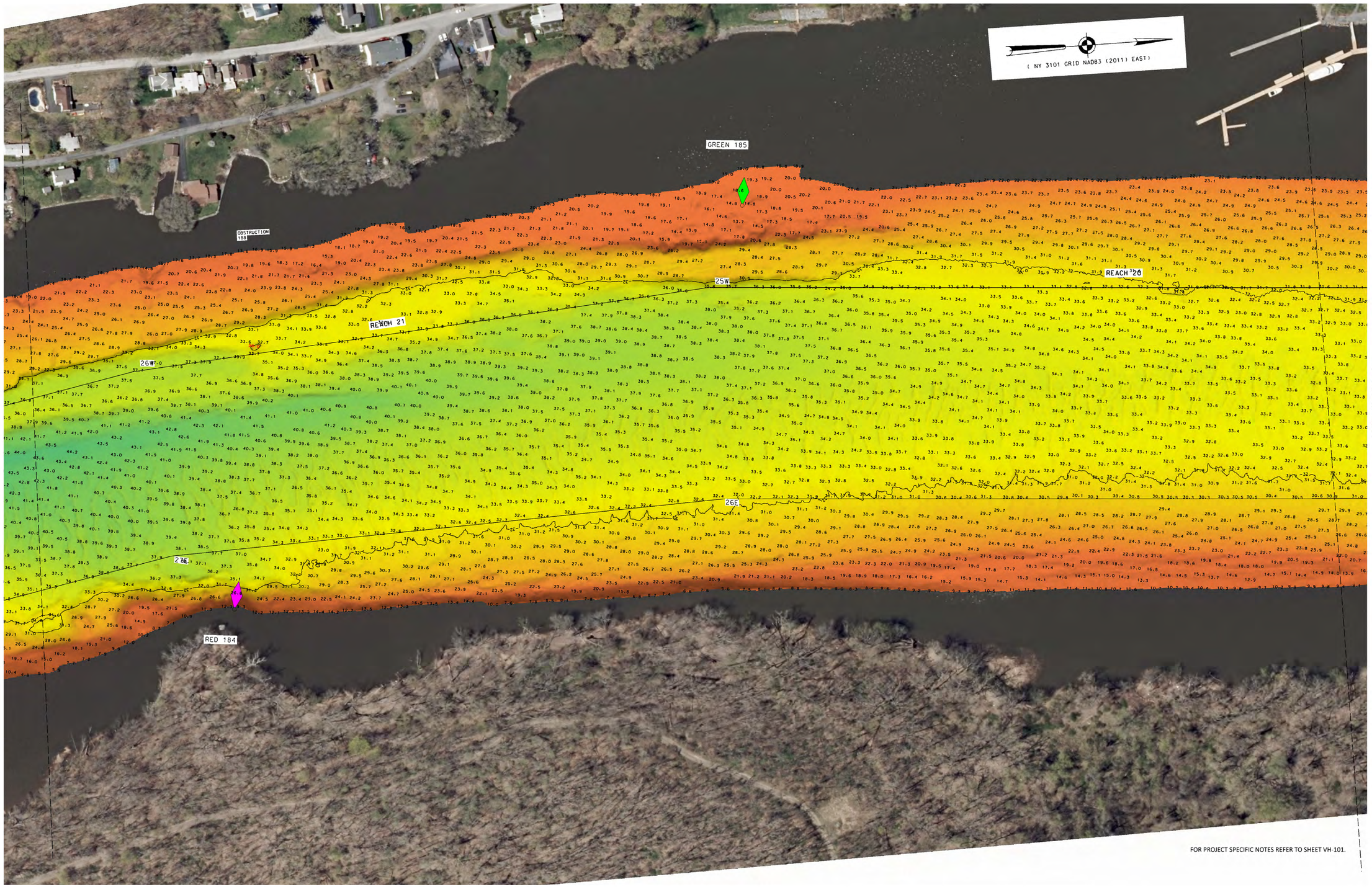
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-175

75 OF 123



FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

McKIM&CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-1282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

			BJJ
			MH
		PR	
		MP	

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

REG. NO./FILE NO.: 5303/CAWOOD

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

APPROVED:	M. HOLDEN	FIELD CARTOGRAPHER
APPROVED:	R. SMITH	CIVIL ENGINEERING TECH
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIRAZ CHOWDHURY	DEPUTY CHIEF, OPERATIONS AND MAPPING BRANCH
DATE:	29 AUGUST 2023	

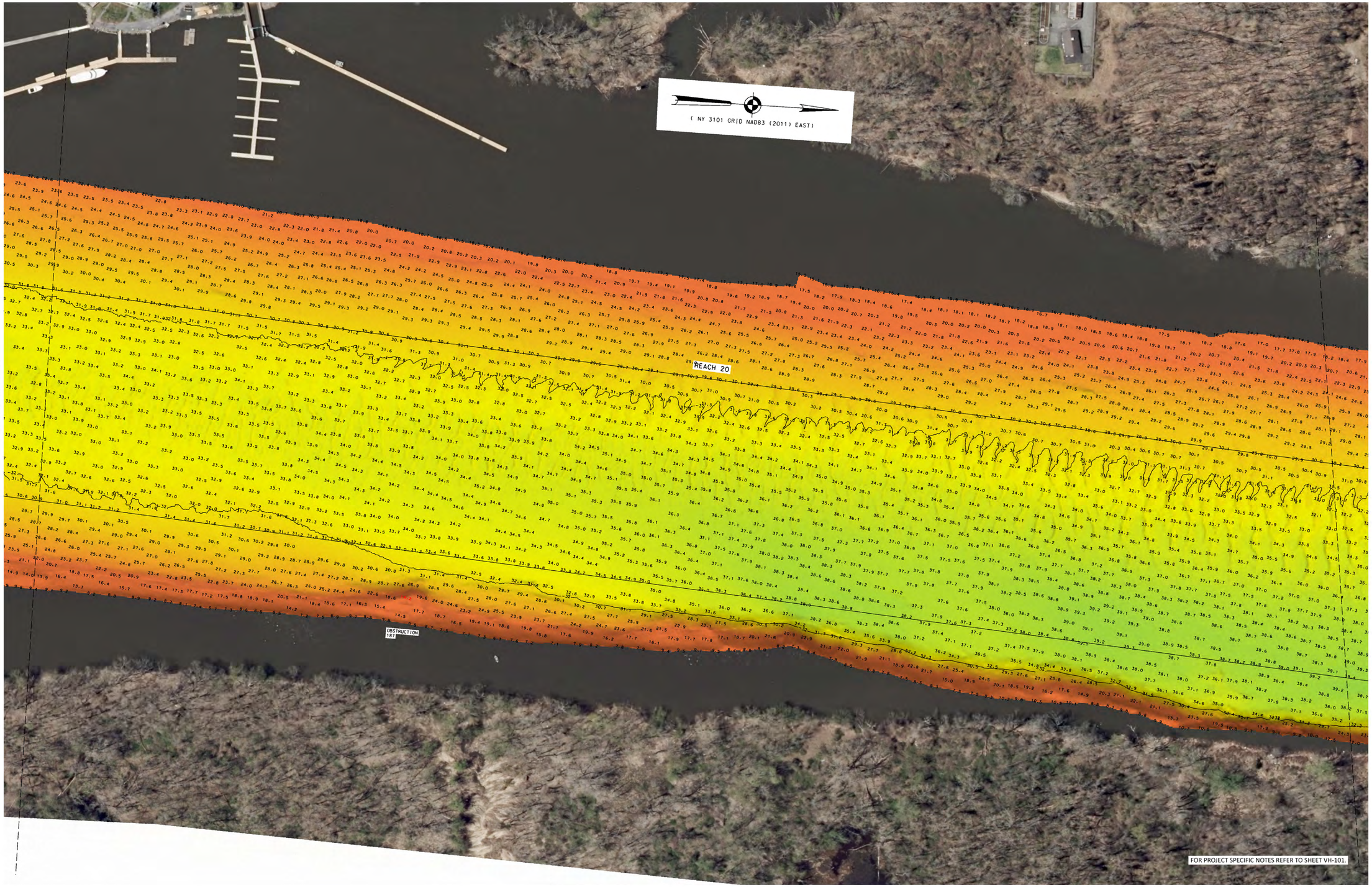
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-176

76 OF 123



McKIM&CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-9282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

LOCAL CONTROL DATA			
BENCHMARK: HR-12		BENCHMARK: 01-1	
ELEVATION: 8.67'	(NAVD88)	ELEVATION: 3.87'	(NAVD83)

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

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

		PR	BJ
		MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIRAZ CHOWDHURY, 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-177

77 OF 123

(NY 3101 GRID NAD83 (2011) EAST)

GREEN 187
LIGHTED

RED 188
LIGHTED

OBSTRUCTION
186

OBSTRUCTION
185

REACH 19

24W

23W

22W

25E

24E

MATCH TO SHEET 77

MATCH TO SHEET 79

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:BBDR68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

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

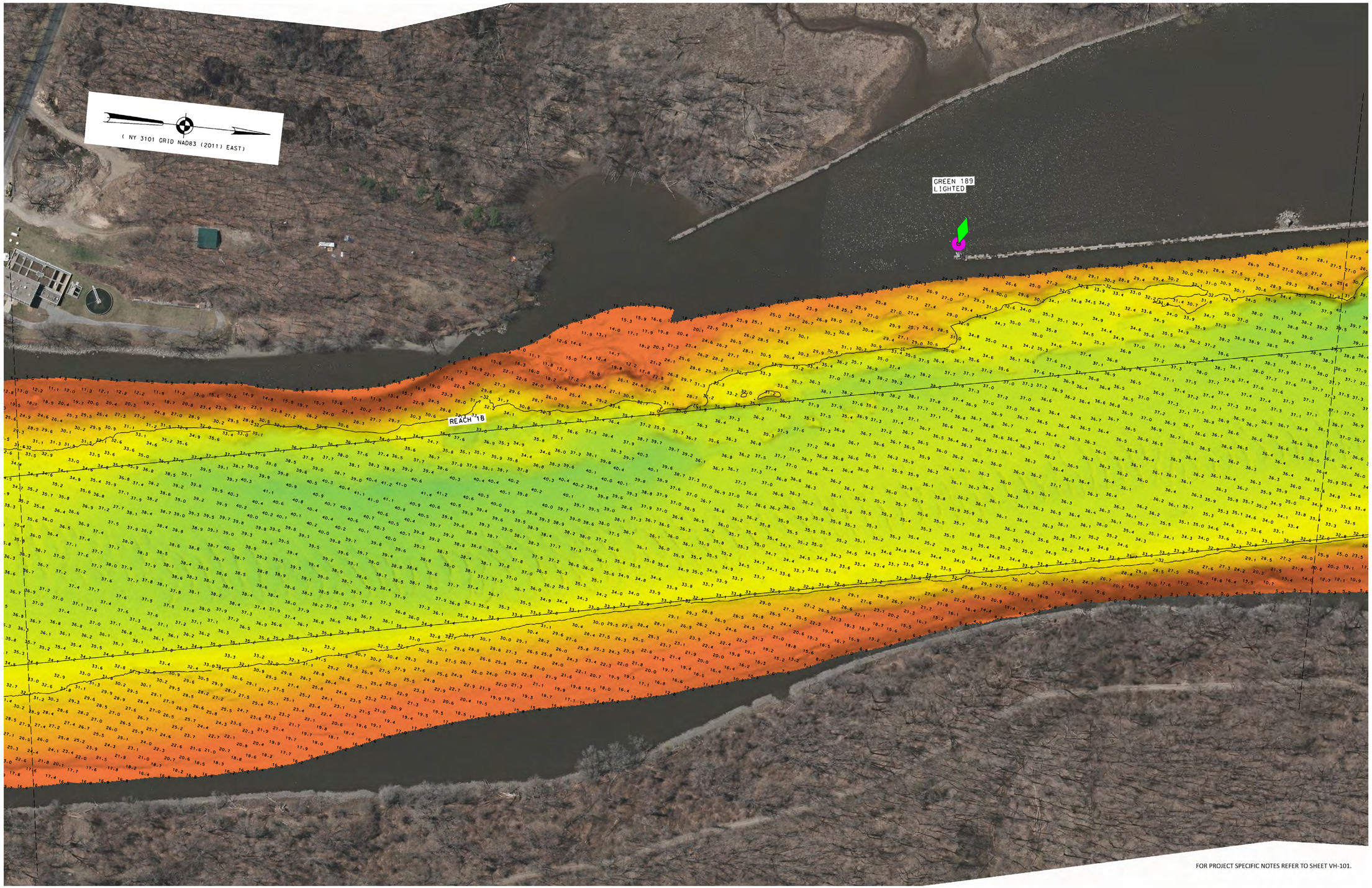
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-178

78 OF 123



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

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

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

REG. NO./FILE NO.: 5303/CAWOOD

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

APPROVED:	M. HOLDEN	FIELD CARTOGRAPHER
APPROVED:	R. SMITH	CIVIL ENGINEERING TECH
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIRAZ CHOWDHURY	DEPUTY FOR GRAPHICS AND MAPPING BRANCH
DATE:	29 AUGUST 2023	

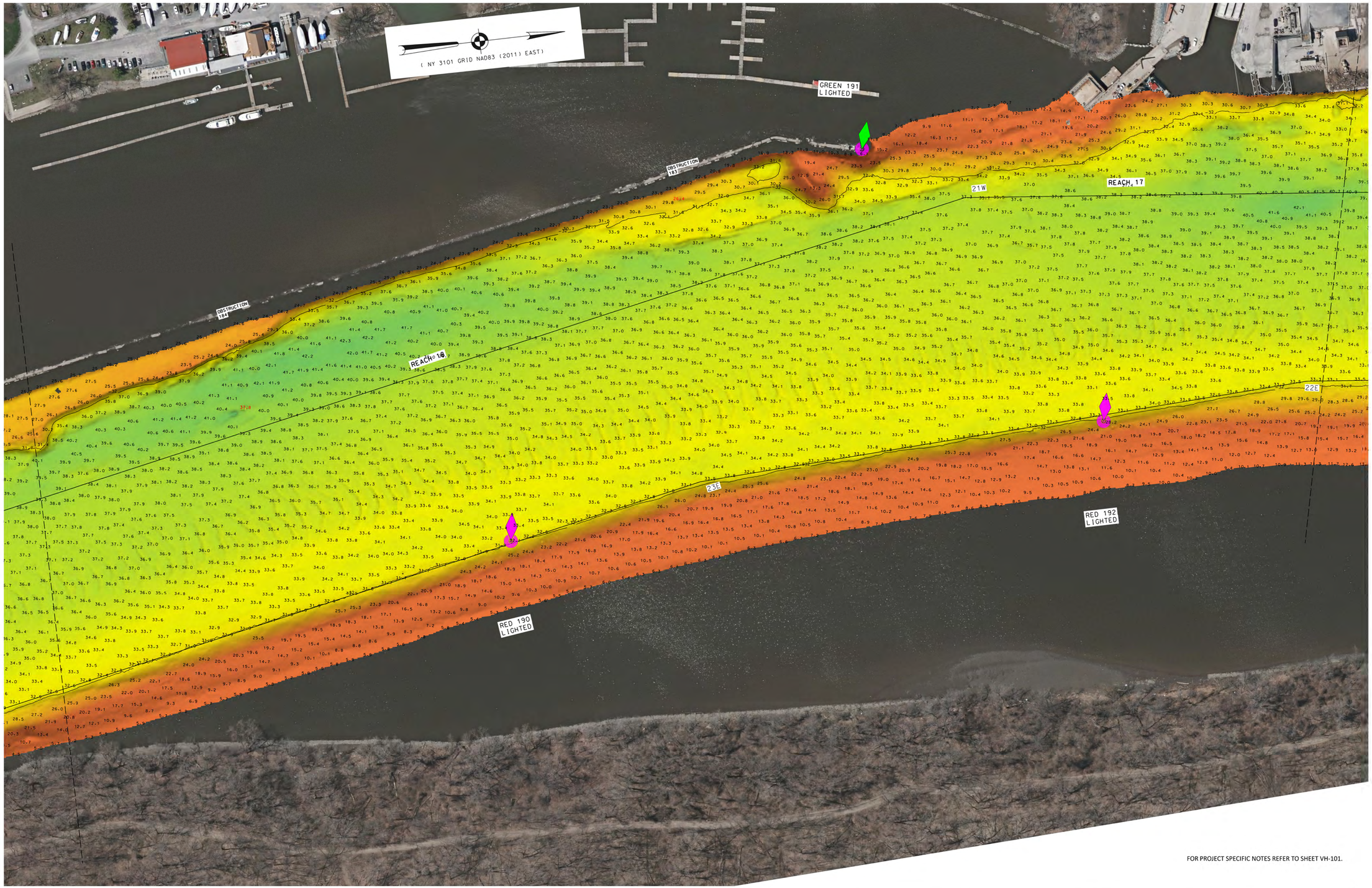
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-179

79 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			
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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	BJ
	WP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

REQ. NO./FILE NO.: 5303/CAWDOD

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE APPROVED, DEPUTY CHIEF, OPERATIONS 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-180

80 OF 123

(NY 3101 GRID NAD83 (2011) EAST)

GREEN 193
LIGHTED

OBSTRUCTION
178

OBSTRUCTION
179

OBSTRUCTION
180

OBSTRUCTION
181

REACH 17

RED 194
LIGHTED

OBSTRUCTION
182

21E

22E

MATCH TO SHEET 80

MATCH TO SHEET 82

FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

0 100' 200'

McKIM&CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 452-1048
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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWDOD

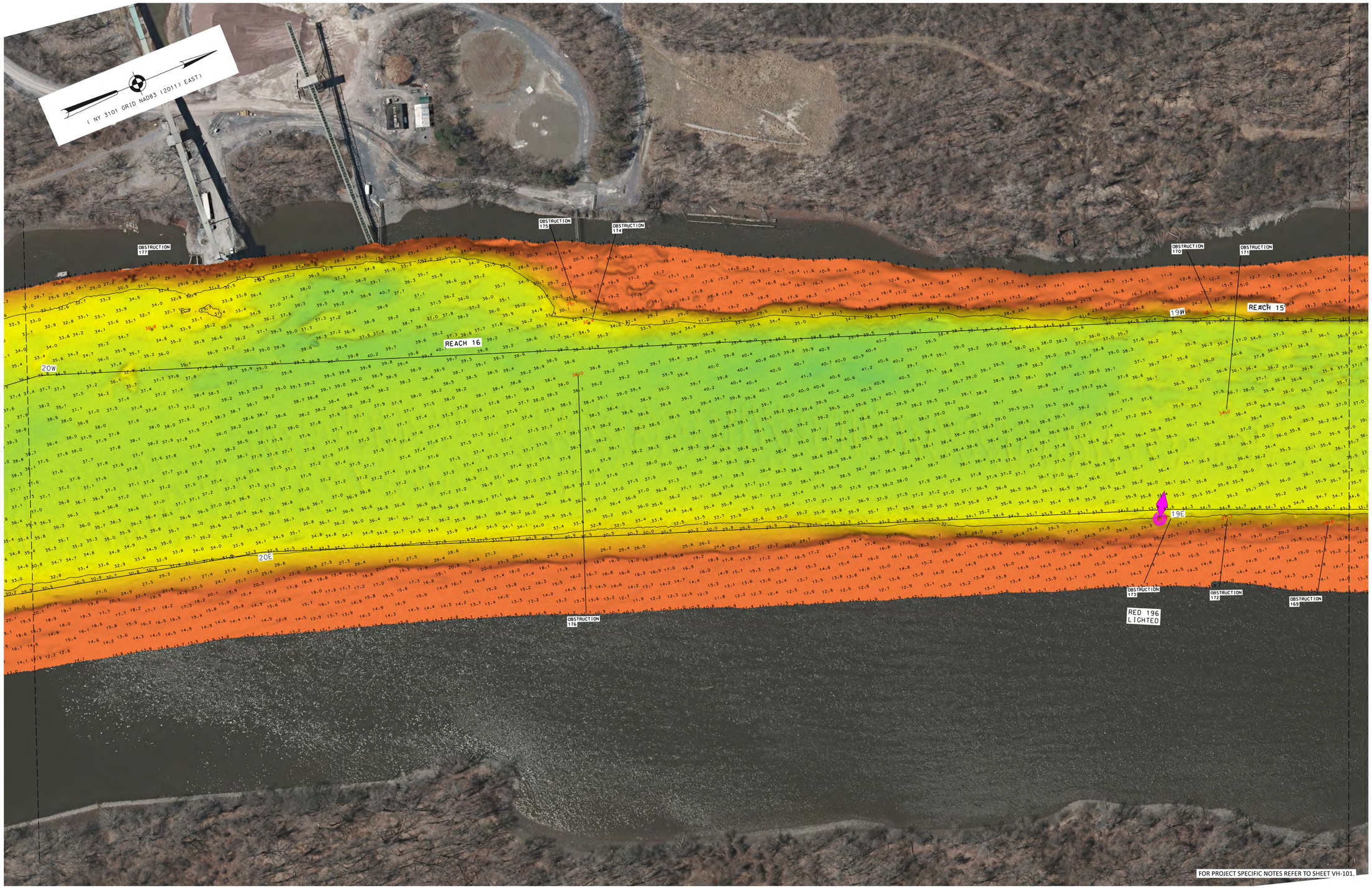
APPROVED:	M. HOLDEN, FIELD CARTOGRAPHER
APPROVED:	R. SMITH, CIVIL ENGINEERING TECH
APPROVED:	P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	SCOTT C. MEAD, CHIEF, OPERATIONS AND MAPPING BRANCH
DATE:	29 AUGUST 2023

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-181



MATCH TO SHEET 81

MATCH TO SHEET 83

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

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

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

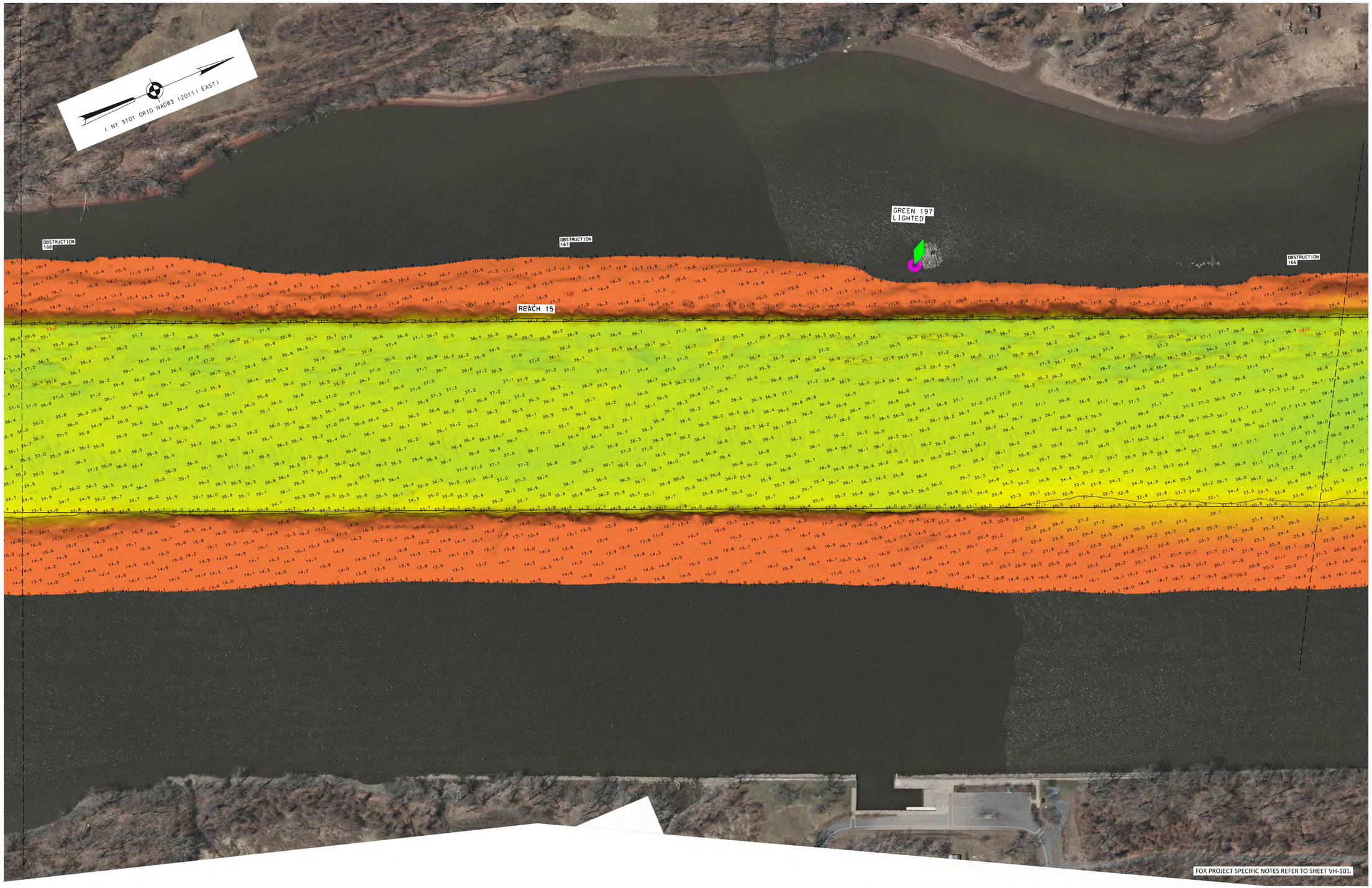
APPROVED:	M. HOLDEN	FIELD CARTOGRAPHER
APPROVED:	R. SMITH	CIVIL ENGINEERING TECH
APPROVED:	P. BHADURI	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE ARAGONES AND MAPPING BRANCH	DEPUTY CHIEF, SURVEYS
DATE:	29 AUGUST 2023	

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-182



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:BBDR68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	BJJ
	MH
	PR
	WP

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MEAZ, CHIEF, GIS, GRAPHICS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

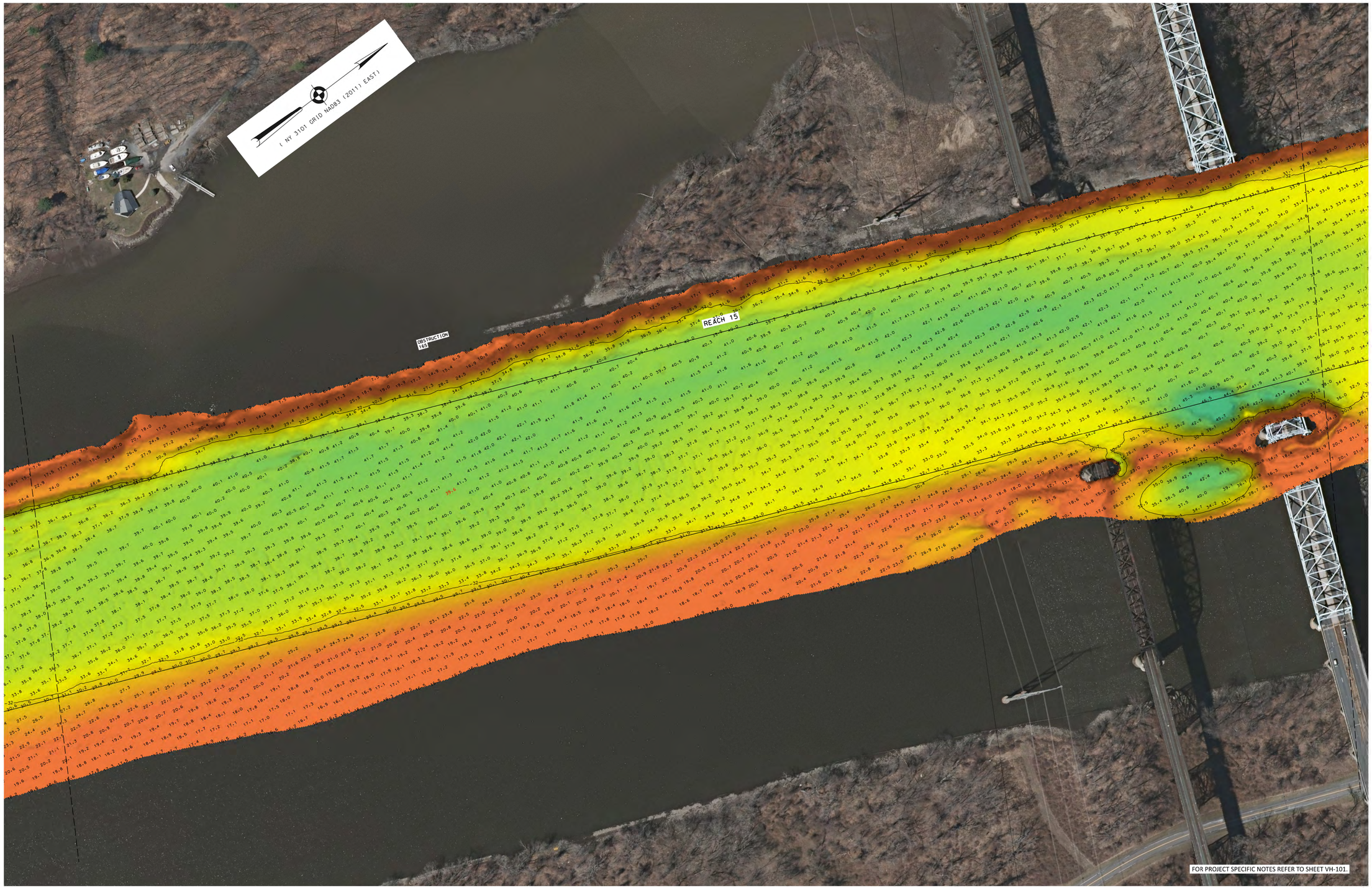
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-183

83 OF 123



MATCH TO SHEET 83

MATCH TO SHEET 85

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

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

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	BJJ
	WP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REQ. NO./FILE NO.: 5303/CAWDOD

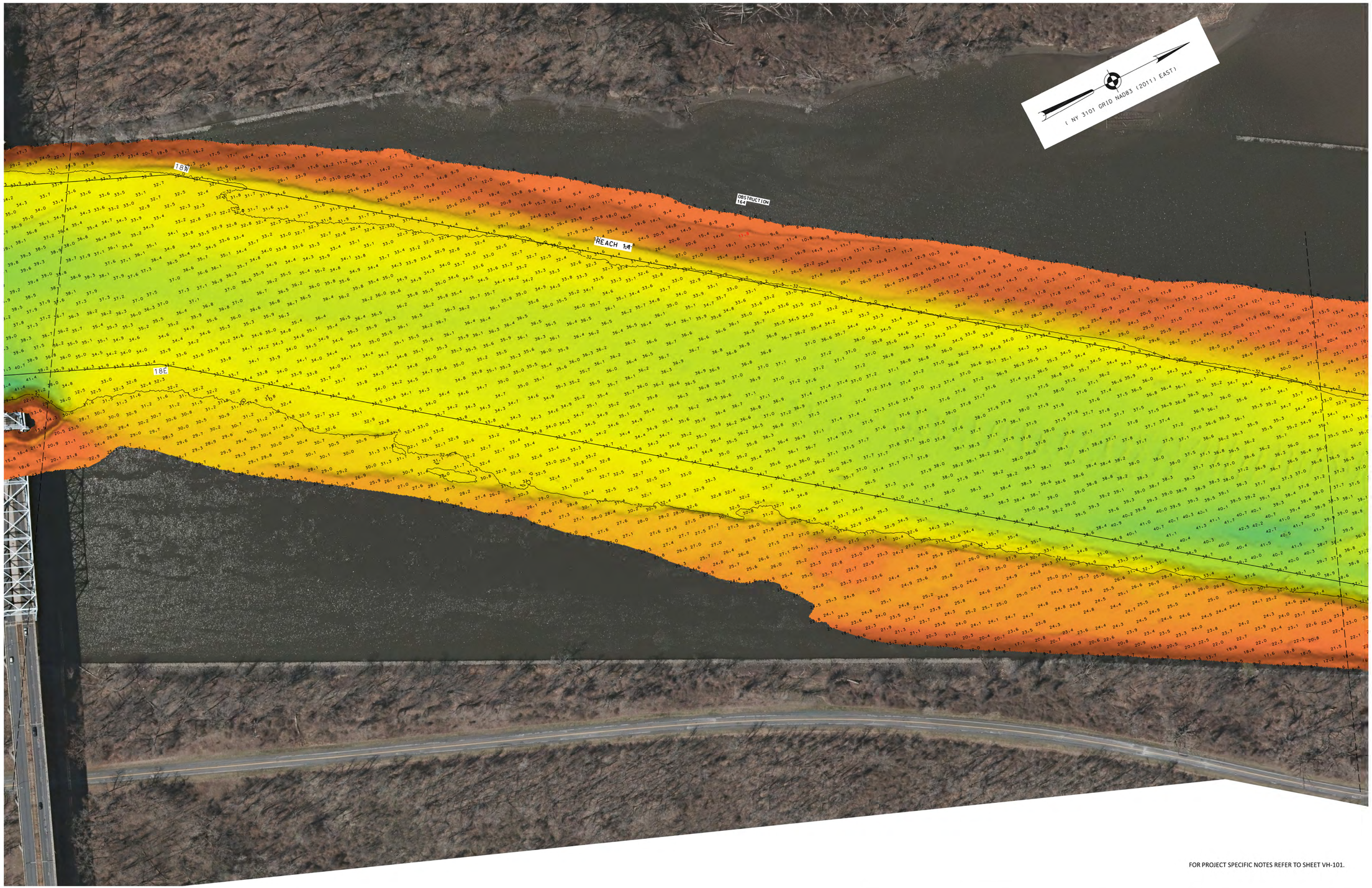
APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MEAZ, DEPUTY CHIEF, GRAPHICS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

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-184



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:BBDR68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REQ. NO./FILE NO.: 5303/CAWDOD

APPROVED:	M. HOLDEN, FIELD CARTOGRAPHER
APPROVED:	R. SMITH, CIVIL ENGINEERING TECH
APPROVED:	P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	BRENT CHRISTIAN, CHIEF, OPERATIONS DIVISION, SURVEYS AND MAPPING BRANCH
DATE:	29 AUGUST 2023

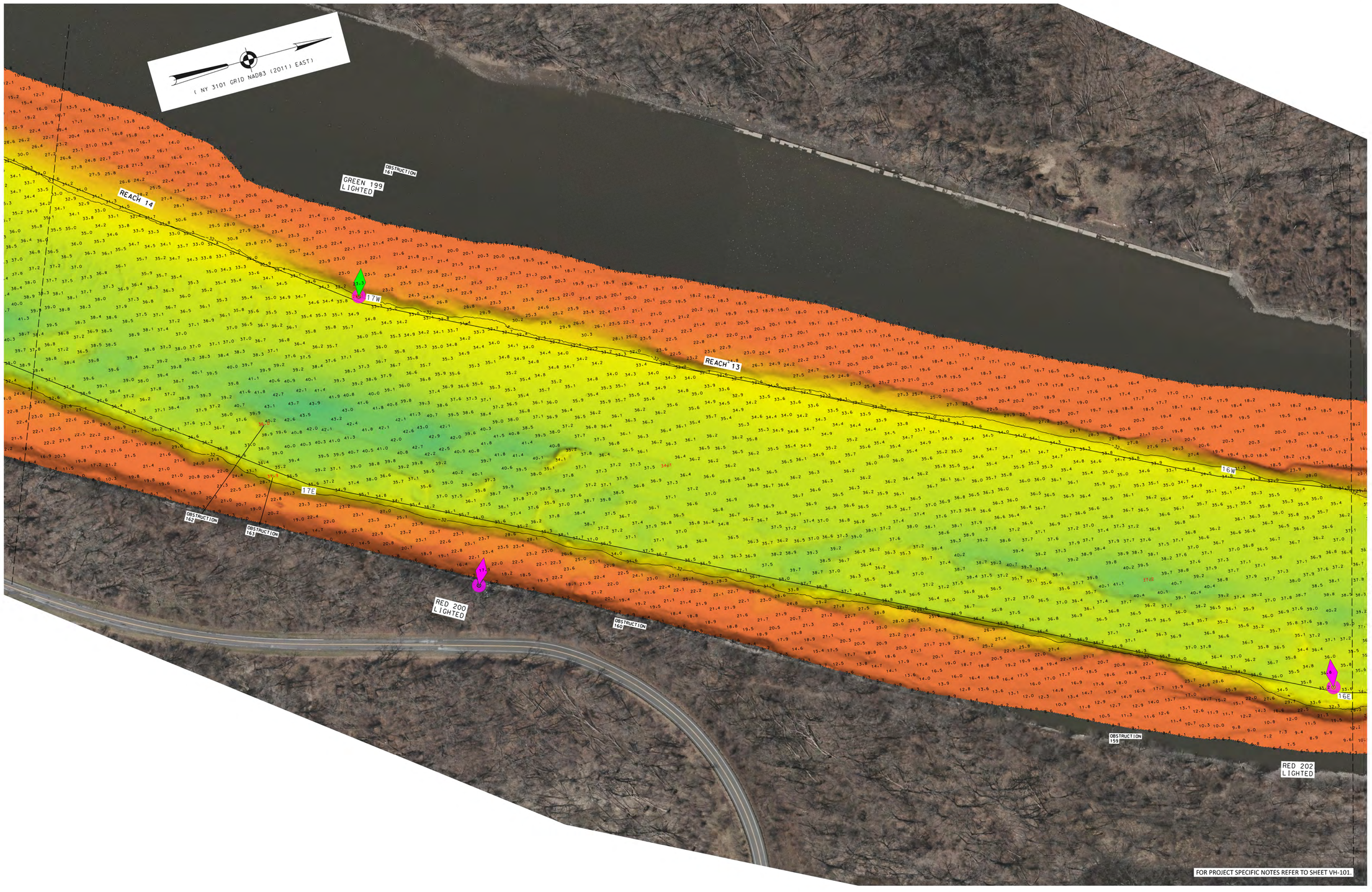
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-185

85 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		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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

APPROVED:	M. HOLDEN
	FIELD CARTOGRAPHER
APPROVED:	R. SMITH
	CIVIL ENGINEERING TECH
APPROVED:	P. BHADURI
	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MEAZ
	BRANCH CHIEF, GRAPHICS AND MAPPING BRANCH
DATE:	29 AUGUST 2023

PR BJJ
WP MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

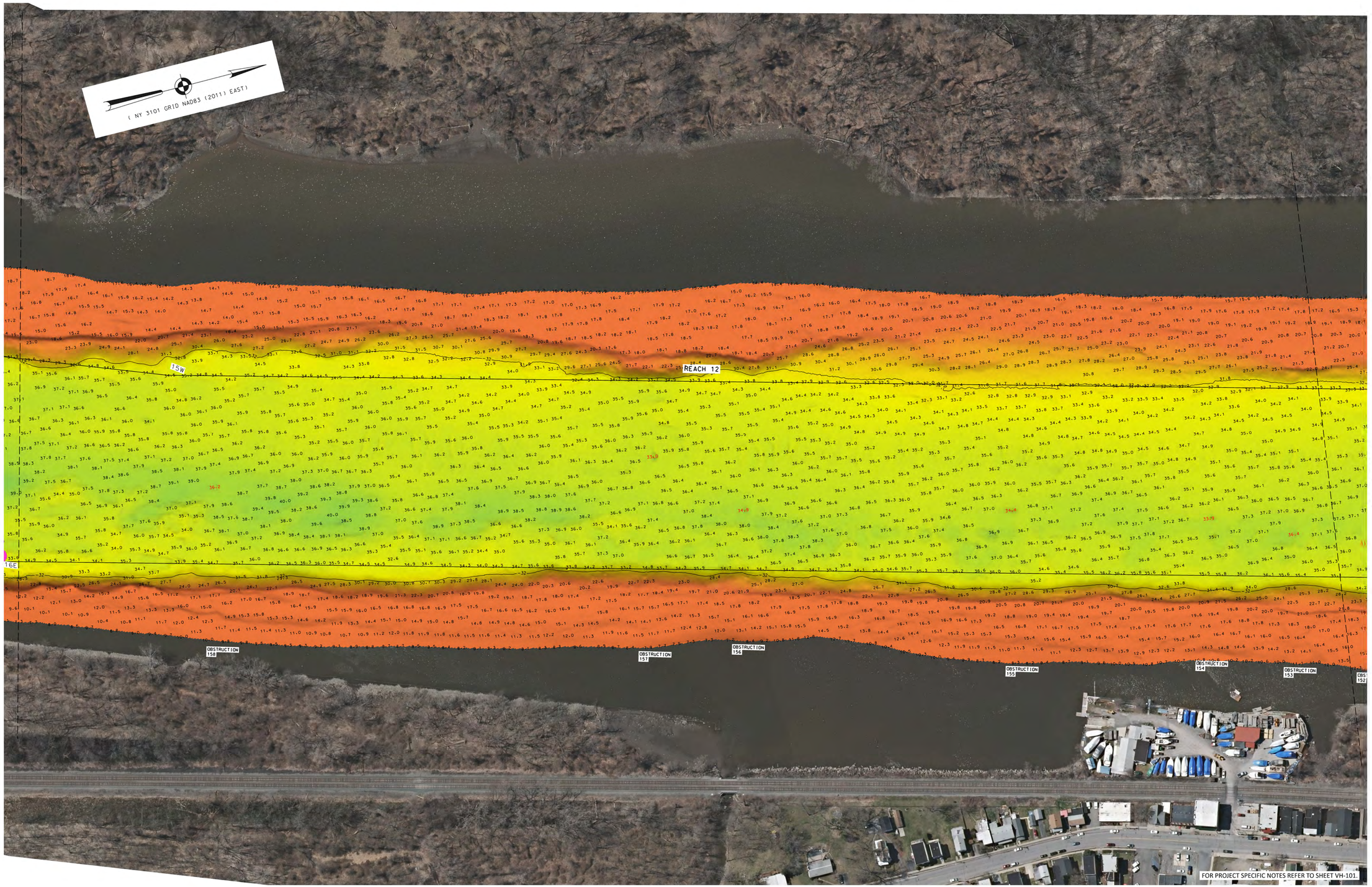
REG. NO./FILE NO.: 15303/CAWOOD

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-186



MATCH TO SHEET 86

MATCH TO SHEET 88

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

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	BJ
	WP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

REQ. NO./FILE NO.: 5303/CAWDOD

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

APPROVED:	M. HOLDEN	FIELD CARTOGRAPHER
APPROVED:	R. SMITH	CIVIL ENGINEERING TECH
APPROVED:	P. BHADURI	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	A. MIRAZ	CHIEF OF SURVEYS AND MAPPING BRANCH
DATE:	29 AUGUST 2023	

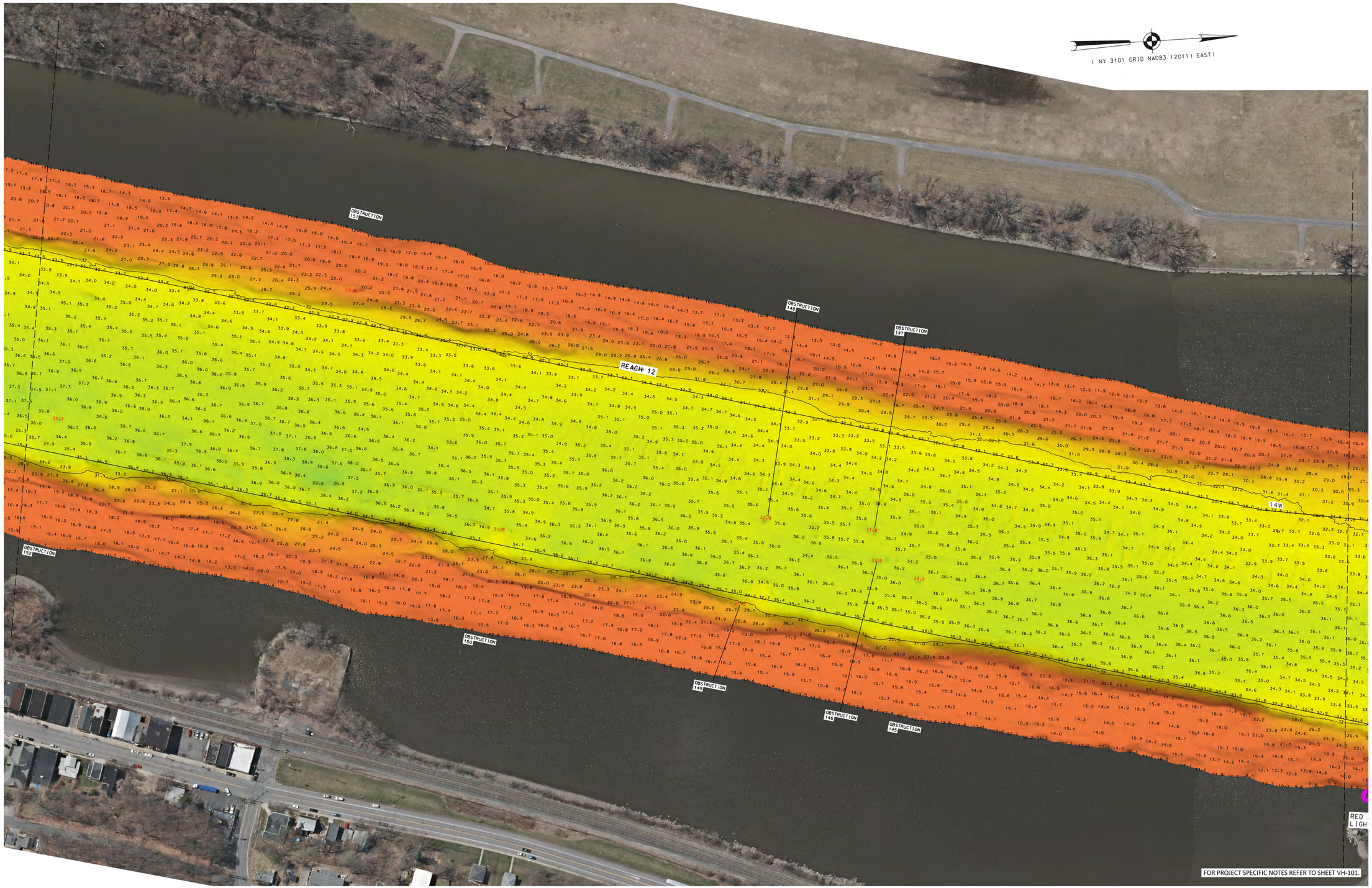
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-187

87 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		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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	BJJ
	MH
	PR
	MP

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 15303/CAWOOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MEAD, OPERATIONS DIVISION, SURVEYS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

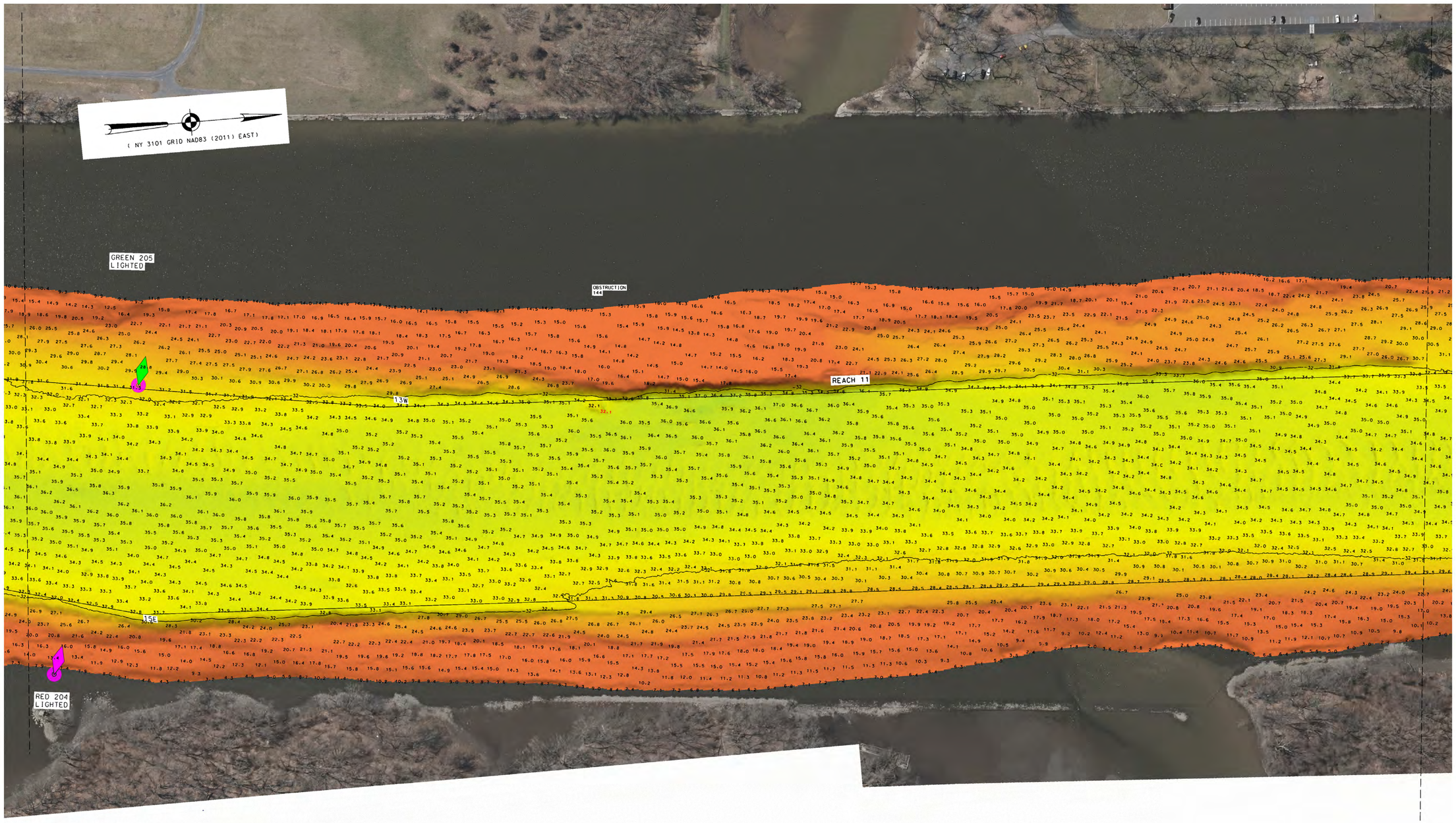
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-188

88 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			
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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	BJ
	MP	MH

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	CIVIL ENGINEERING TECH
APPROVED:	P. BHADURI	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MEAZ	DEPUTY CHIEF, GRAPHICS AND MAPPING BRANCH
DATE:	29 AUGUST 2023	

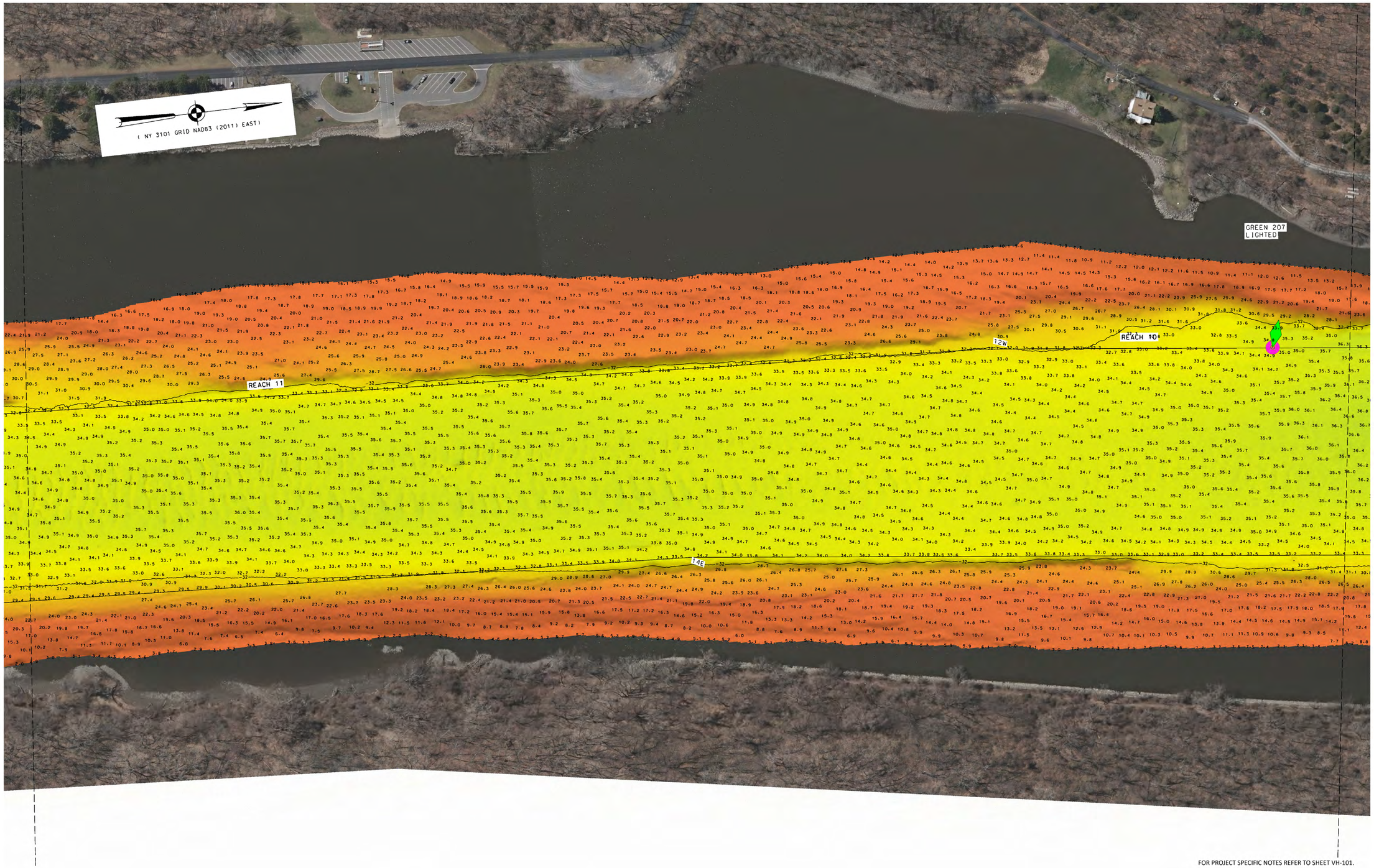
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-189

89 OF 123



MATCH TO SHEET 89

MATCH TO SHEET 91

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

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

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	BJ
	MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

REG. NO./FILE NO.: 5303/CAWOOD

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

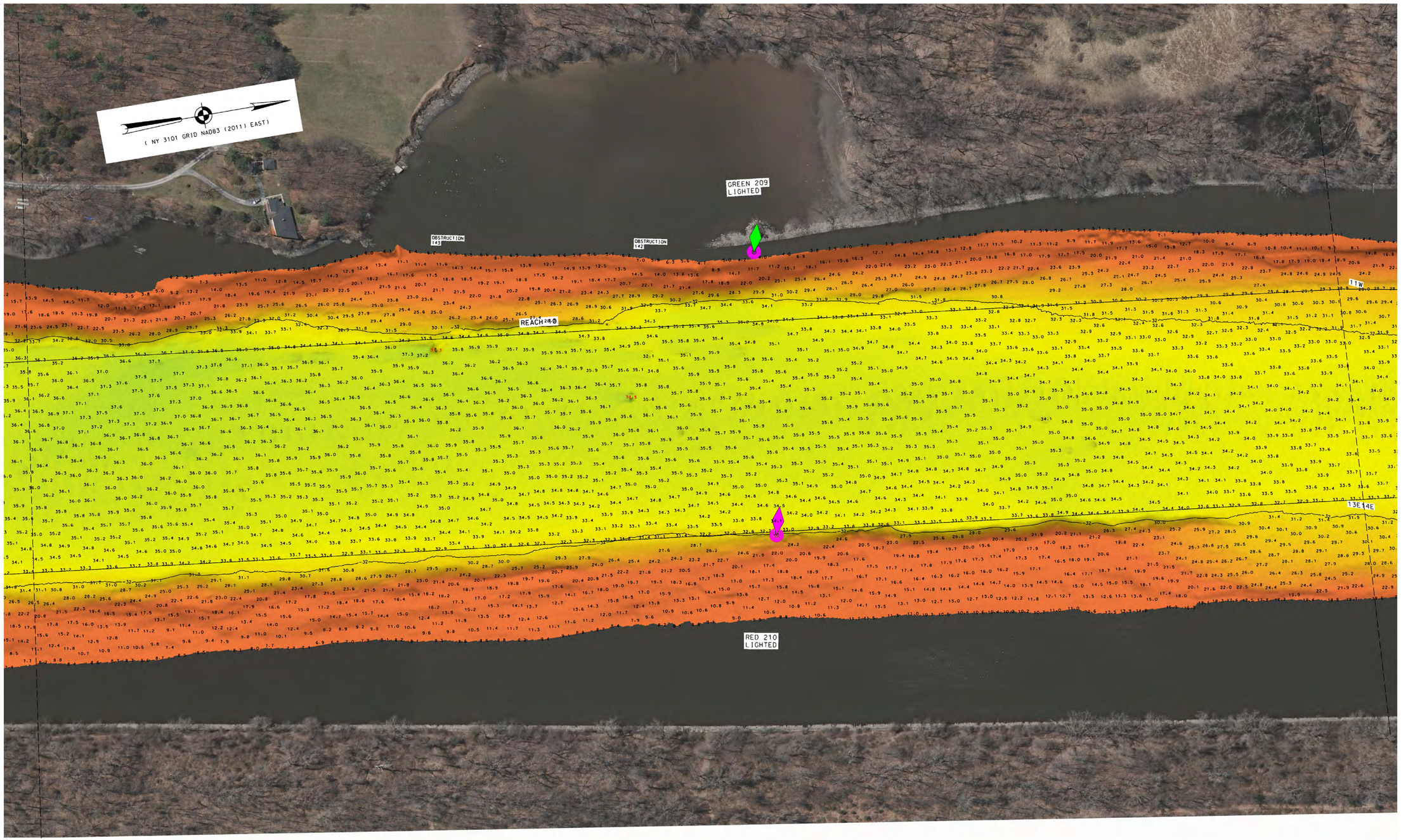
APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIRAZ CHOWDHURY, DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

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-190



MATCH TO SHEET 90

MATCH TO SHEET 92

FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

0 100' 200'

McKIM&CREED
245 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)	EVEVATION: 3.87'	(NAVD88)

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	BJ
	MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

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

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

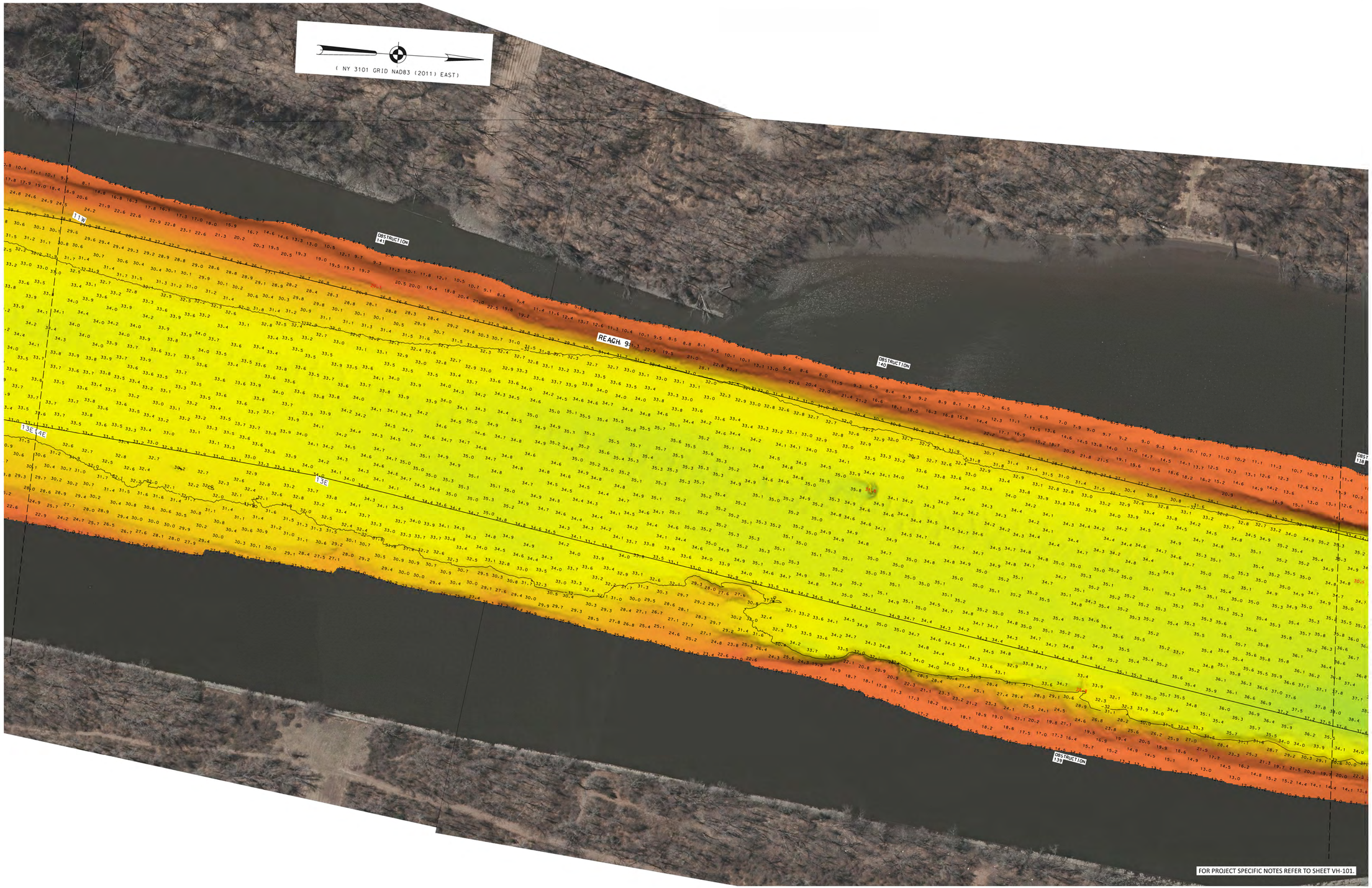
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-191

91 OF 123



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

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

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJJ	
MP	MH	

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REQ. NO./FILE NO.: 5303/CAWDOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: BRIAN BREAZ, CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

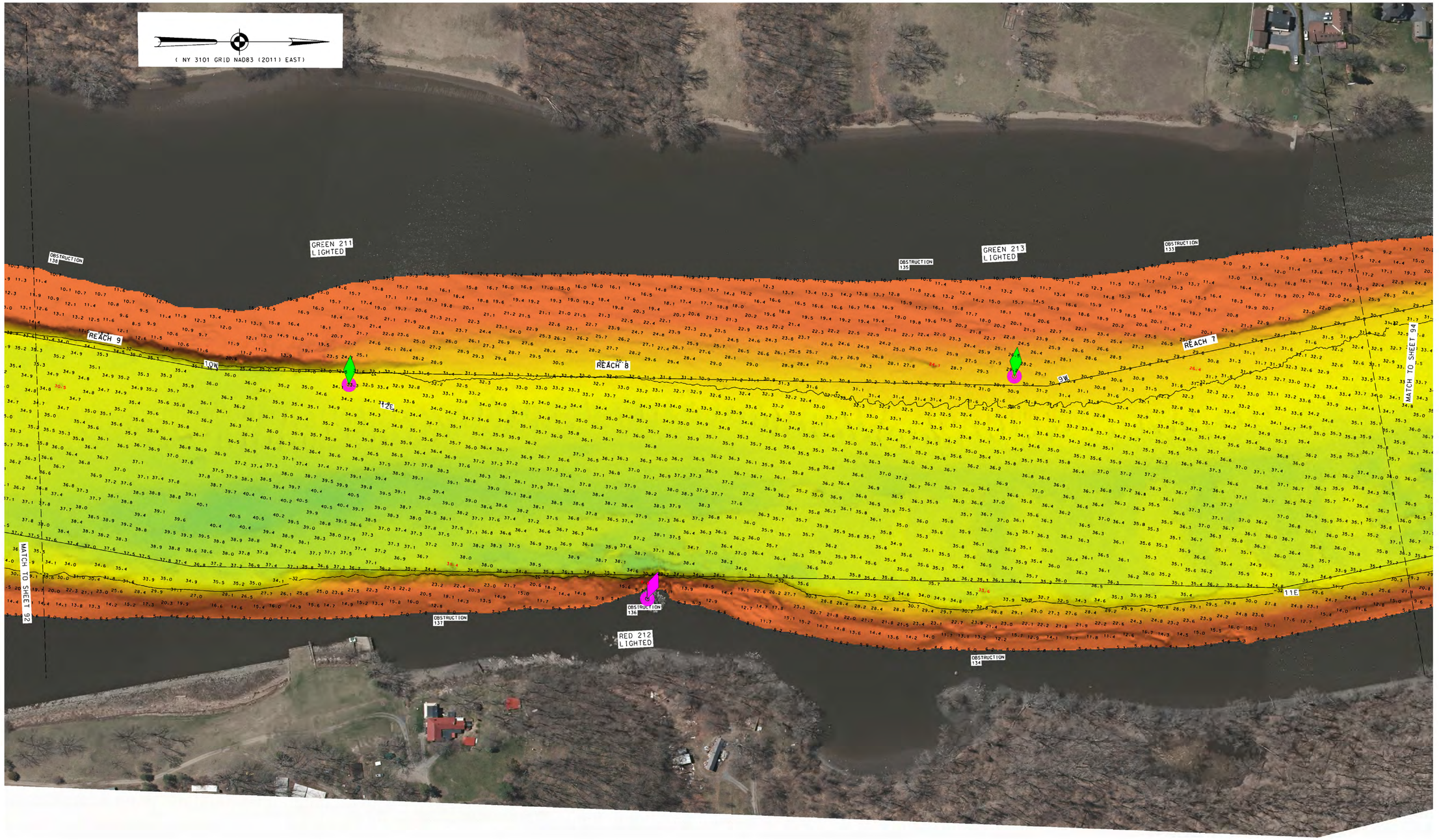
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-192

92 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			
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)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

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

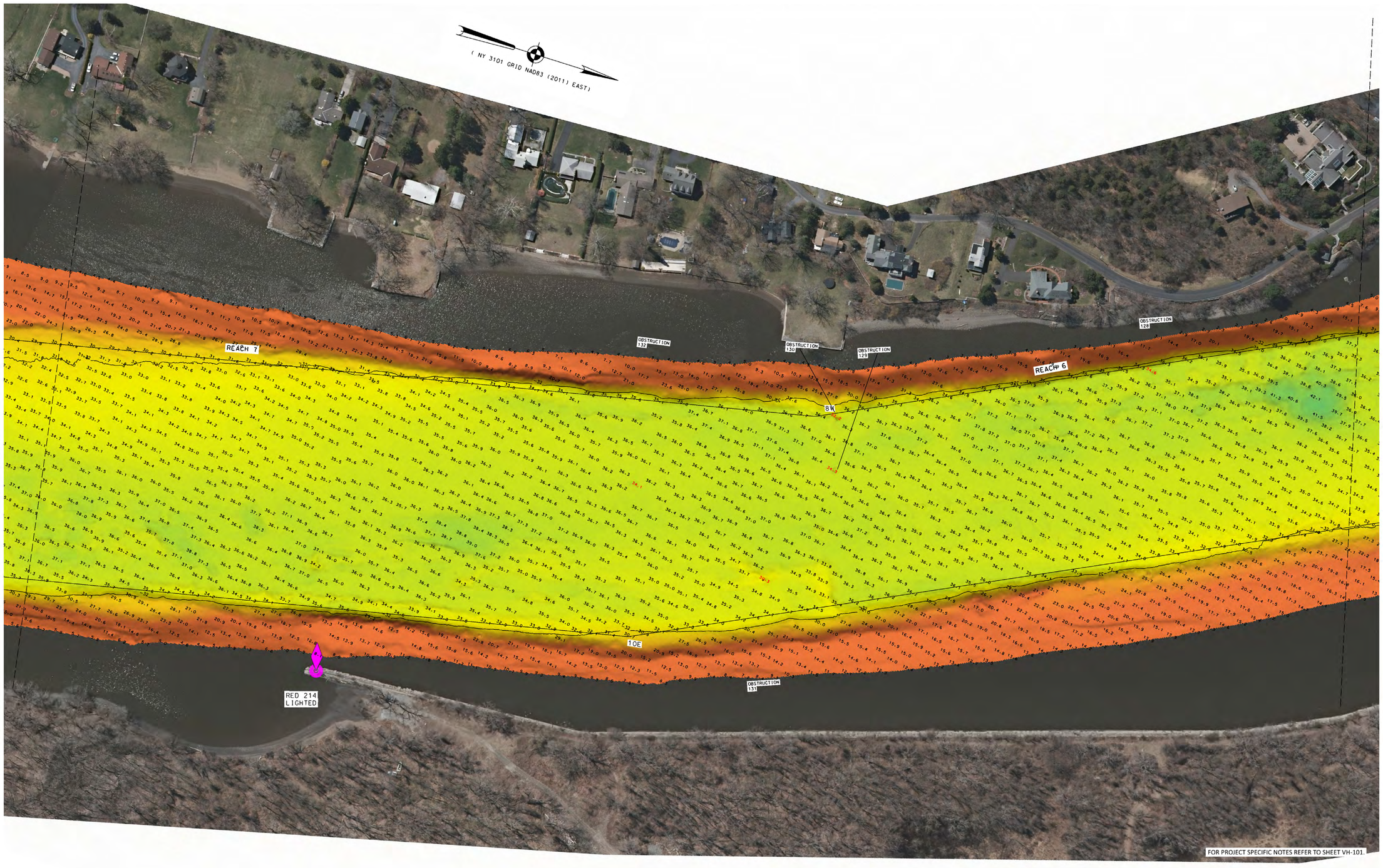
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-193

93 OF 123



MATCH TO SHEET 93

MATCH TO SHEET 95

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: 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

| | | |

(NY 3101 GRID NAD83 (2011) EAST)

GREEN 215
LIGHTED

REACH 6

REACH 5

OBSTRUCTION
127

RED 216
LIGHTED

MATCH TO SHEET 94

MATCH TO SHEET 96

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

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

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

		PR	BJ
		MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIRAZ CHOWDHURY, DEPUTY CHIEF, OPERATIONS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

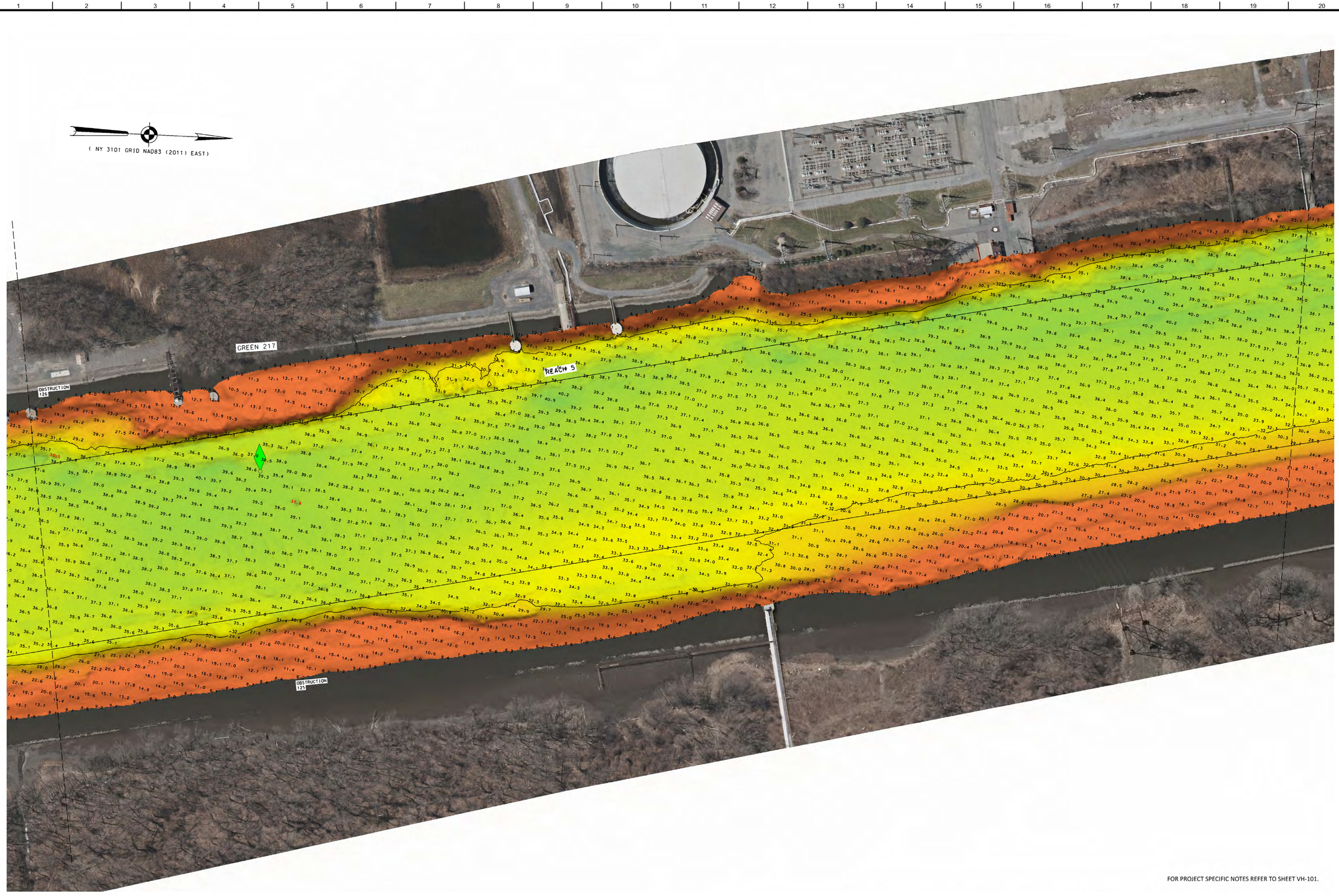
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

KINGSTON TO WATERFORD
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-195

95 OF 123



FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

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 DAMN 1 (PID:BBDR68)
ELEVATION: 25.32' (NAVD88)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

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

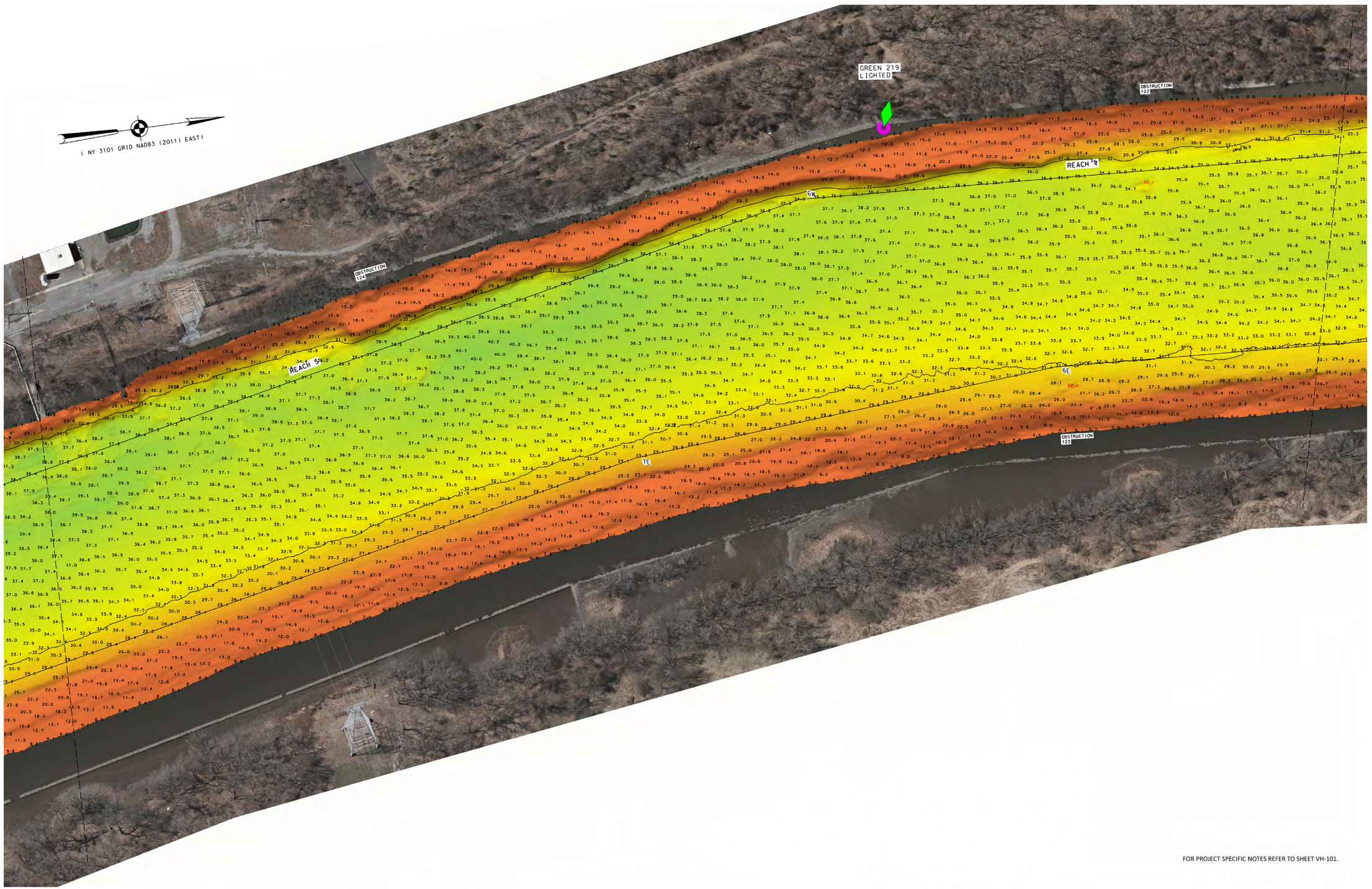
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-196

96 OF 123



FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	BJ
	MP	MH

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
CIVIL ENGINEERING TECH

APPROVED: P. BHADURI
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIRAZ
DEPUTY FOR GRAPHICS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

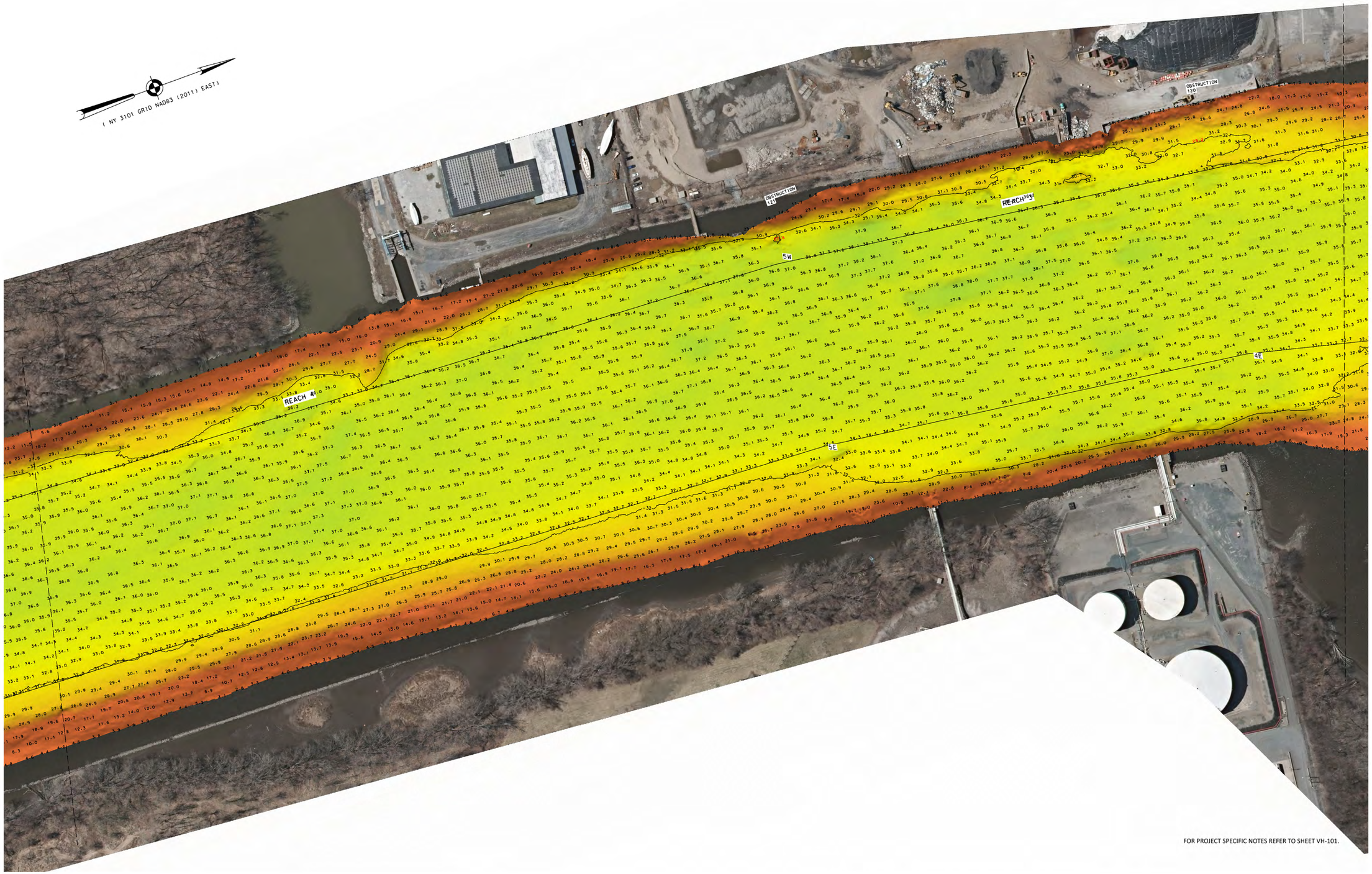
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-197

97 OF 123



FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

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)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	BJ
	MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MEAZ, CHIEF, OPERATIONS DIVISION
DATE: 29 AUGUST 2023

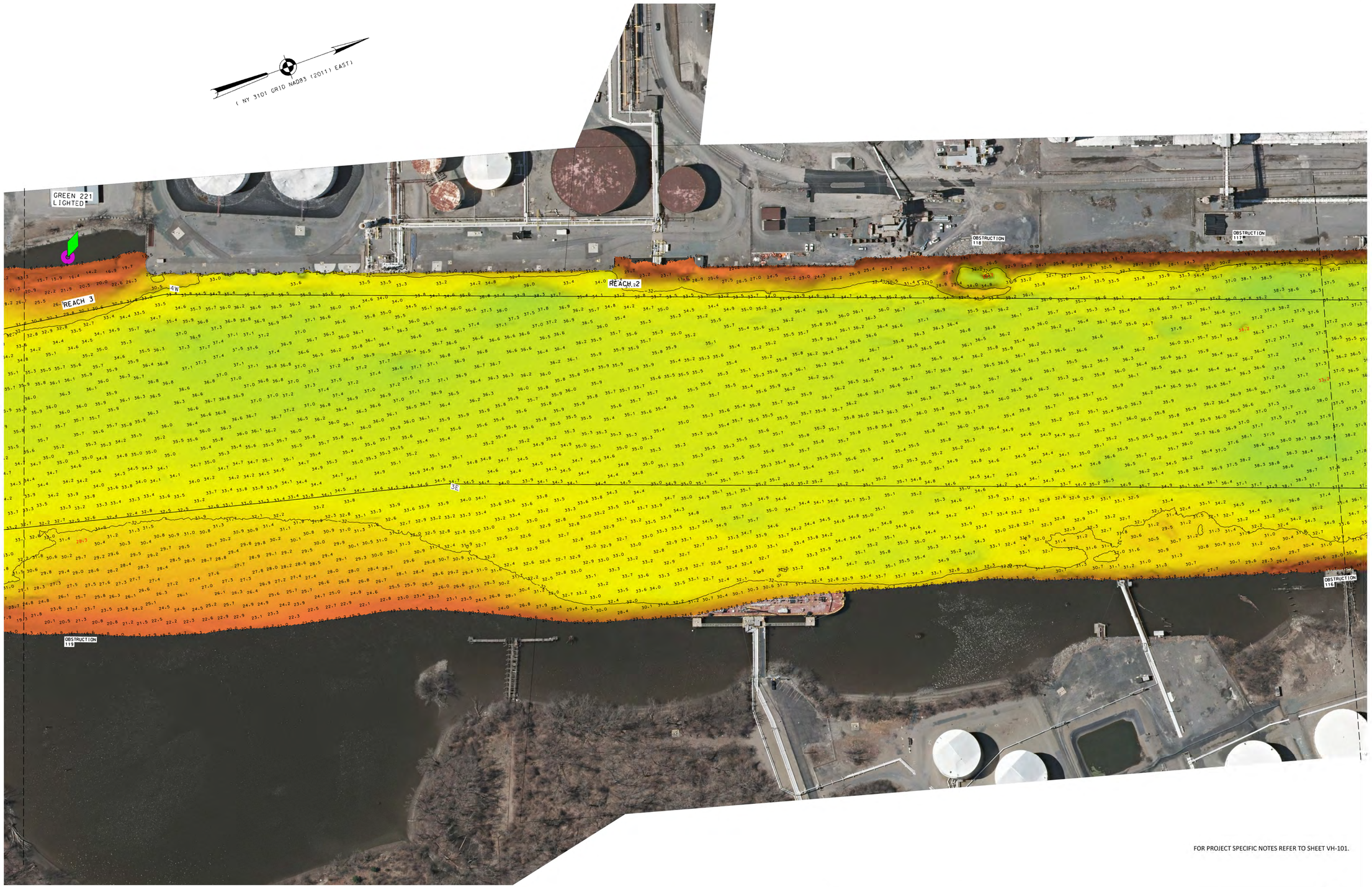
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-198

98 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:BBDR68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

						PR	BJ
						WP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 15303/CAWOOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: GREG [illegible], CHIEF, OPERATIONS, SURVEYS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

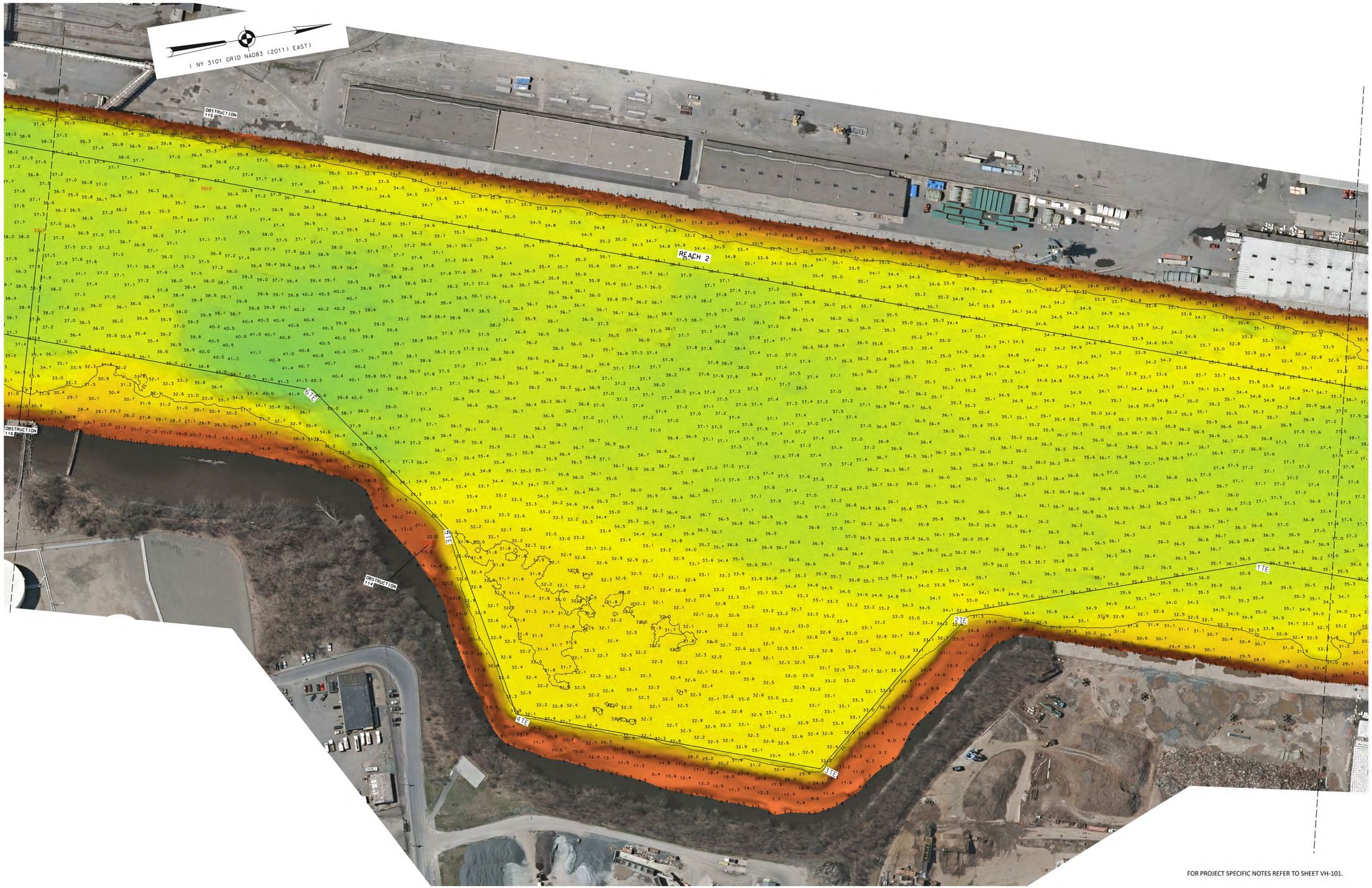
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-199

99 OF 123



FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

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)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	BJJ
	WP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

REQ. NO./FILE NO.: 15303/CAWDOD

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

APPROVED:	M. HOLDEN	FIELD CARTOGRAPHER
APPROVED:	R. SMITH	CIVIL ENGINEERING TECH
APPROVED:	P. BHADURI	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE A. [illegible]	DEPUTY CHIEF OF OPERATIONS AND MAPPING BRANCH
DATE:	29 AUGUST 2023	

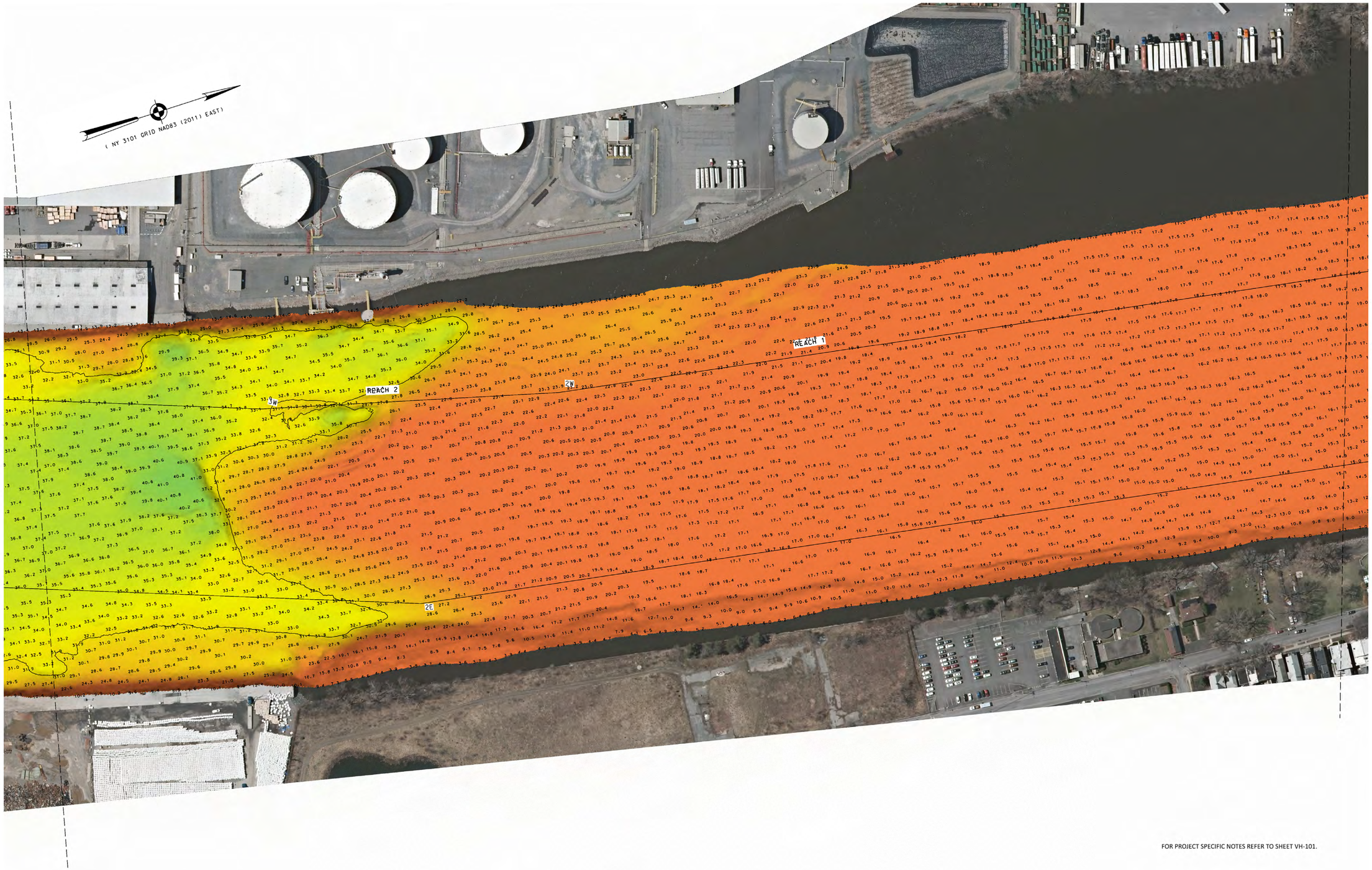
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-200

100 OF 123



MATCH TO SHEET 100

MATCH TO SHEET 102

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:BBDR68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

								PR	BJ
								MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

REG. NO./FILE NO.: 5303/CAWOOD

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

APPROVED: M. HOLDEN — FIELD CARTOGRAPHER
APPROVED: R. SMITH — CIVIL ENGINEERING TECH
APPROVED: P. BHADURI — CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIRAZ CHOWDHURY — DEPUTY CHIEF, GEOMATICS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

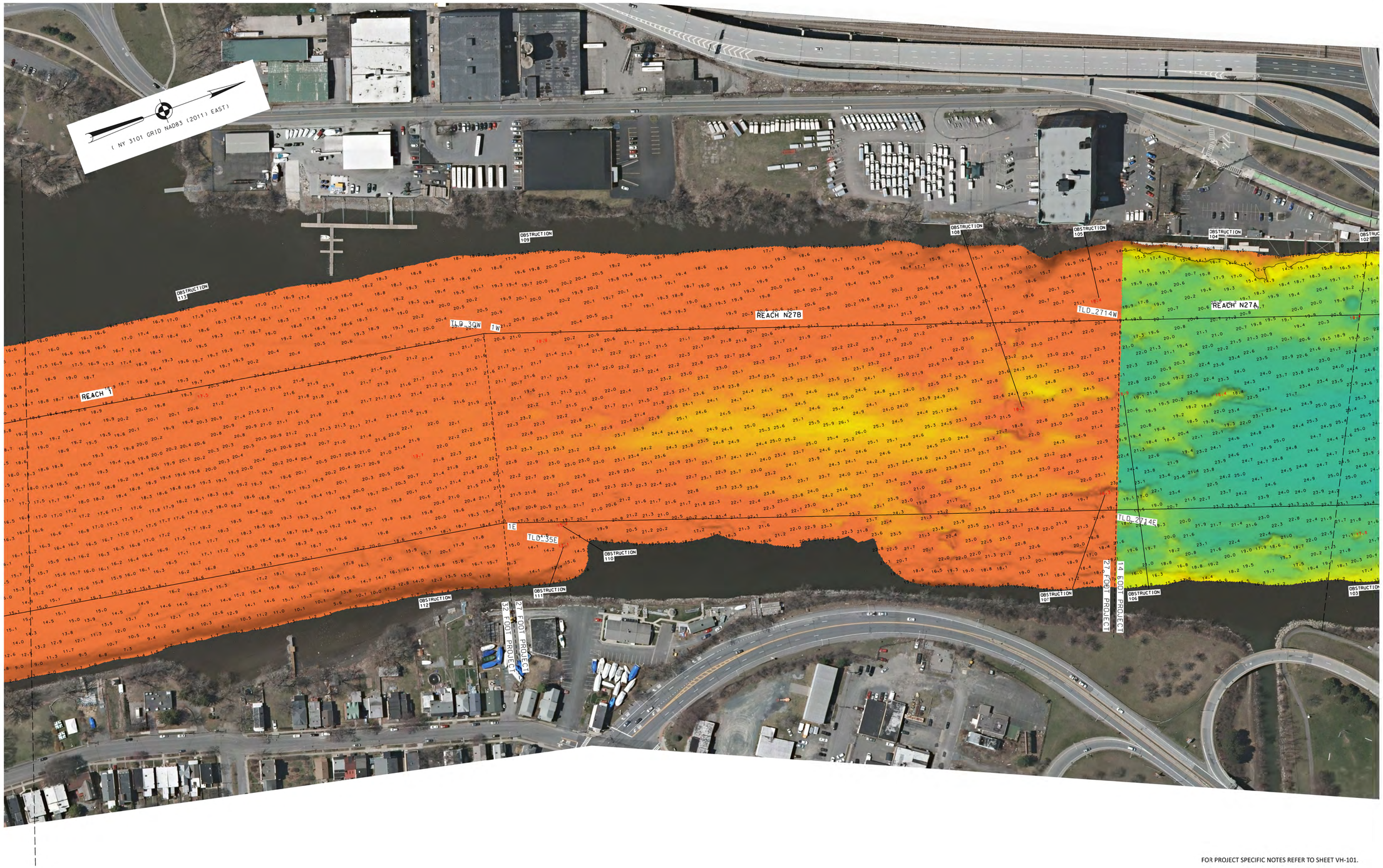
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-201

101 OF 123



FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

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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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	BJJ
	WP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWDOD

APPROVED:	M. HOLDEN	FIELD CARTOGRAPHER
APPROVED:	R. SMITH	CIVIL ENGINEERING TECH
APPROVED:	P. BHADURI	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MIKE ARAPICS AND MAPPING BRANCH DEPUTY CHIEF OF OPERATIONS	
DATE:	29 AUGUST 2023	

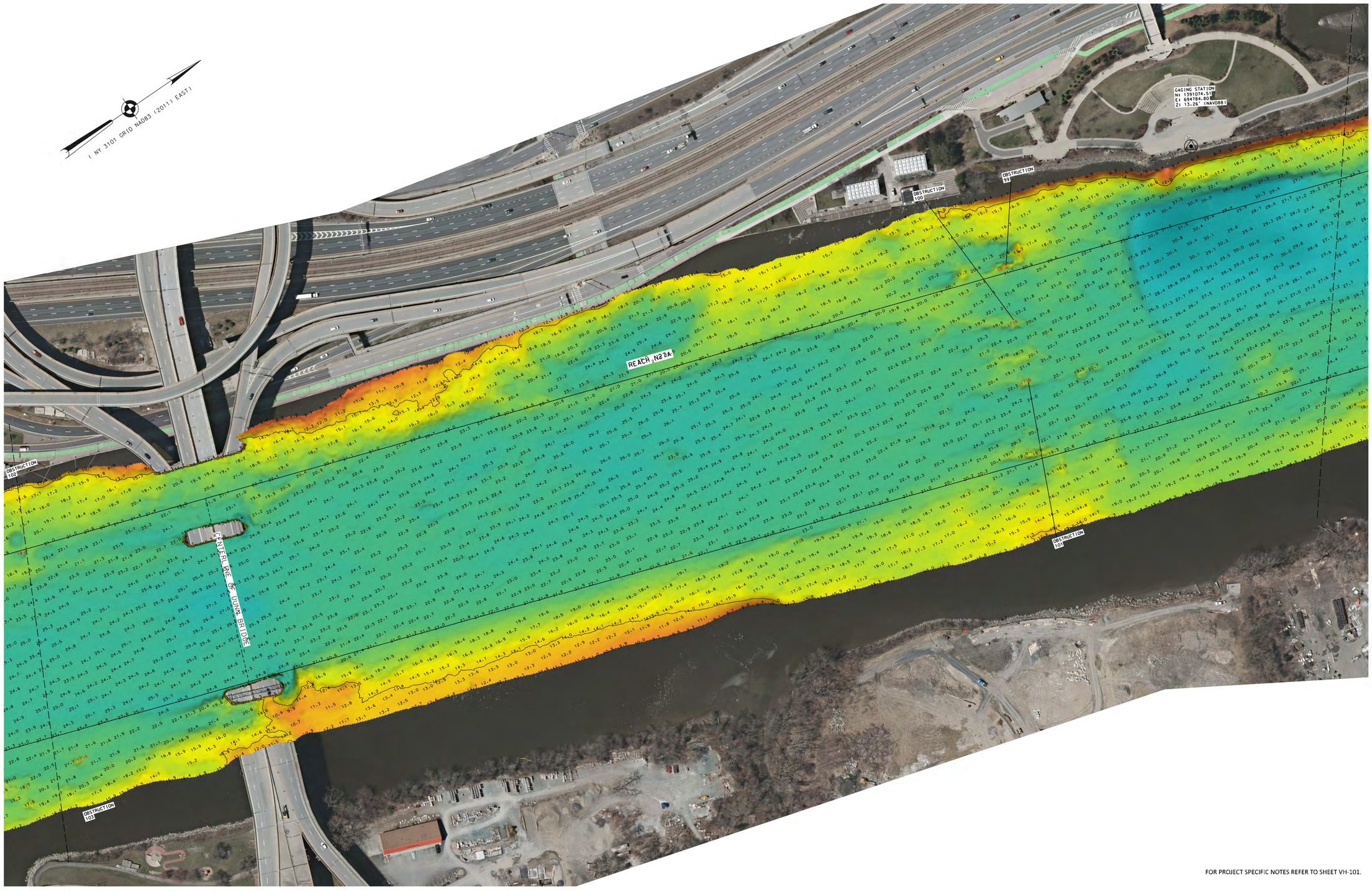
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-202

102 OF 123



FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	BJ
	WP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

REQ. NO./FILE NO.: 5303/CAWDOD

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE A. PYNN, DEPUTY CHIEF, OPERATIONS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

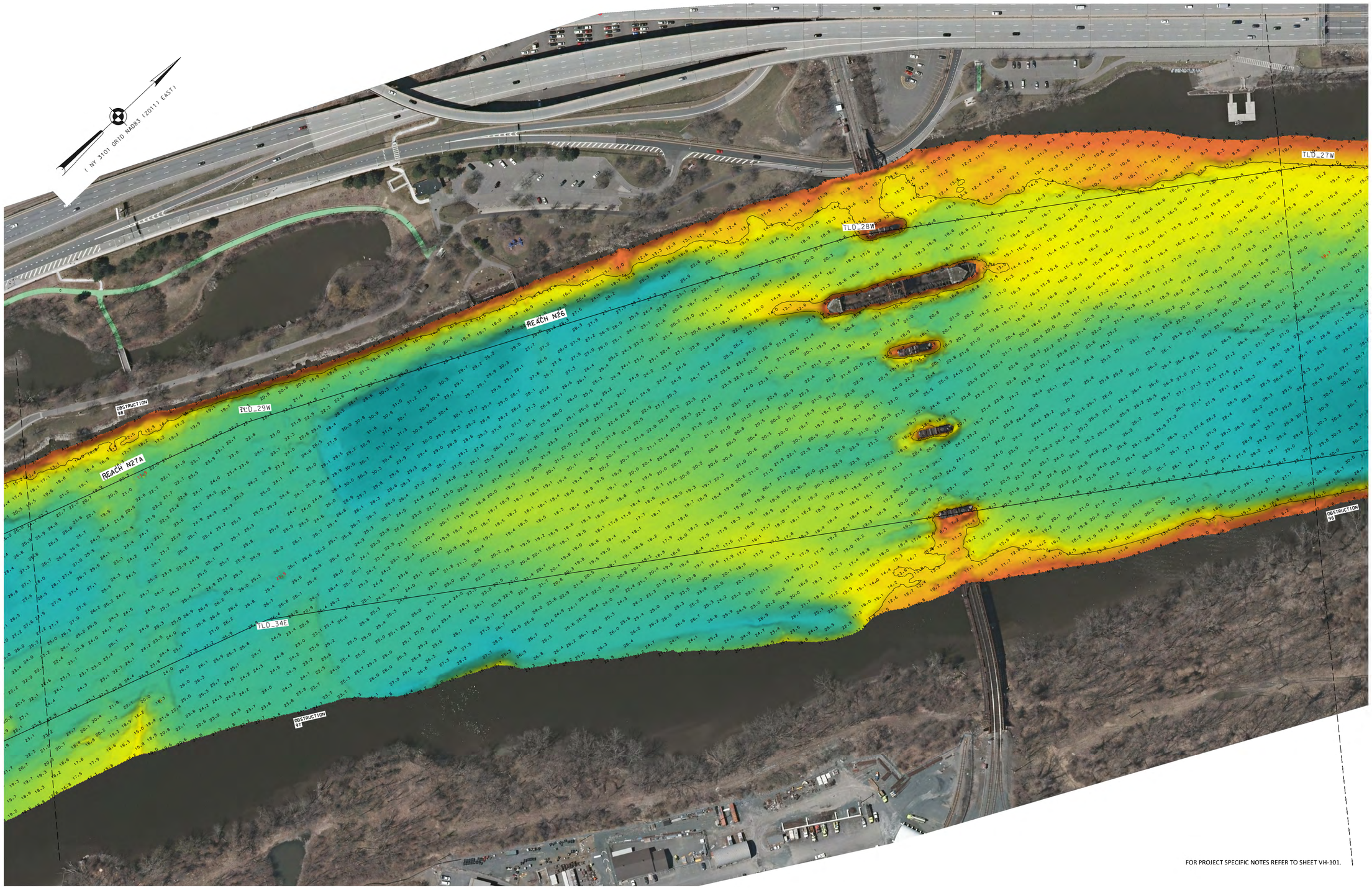
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-203

103 OF 123



MATCH TO SHEET 103

MATCH TO SHEET 105

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

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	BJ
	WP	MH

DATES OF SURVEY:
07 AUGUST
TO
29 AUGUST 2023

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REQ. NO./FILE NO.: 5303/CAWDOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE GRAZ, DEPUTY CHIEF, OPERATIONS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

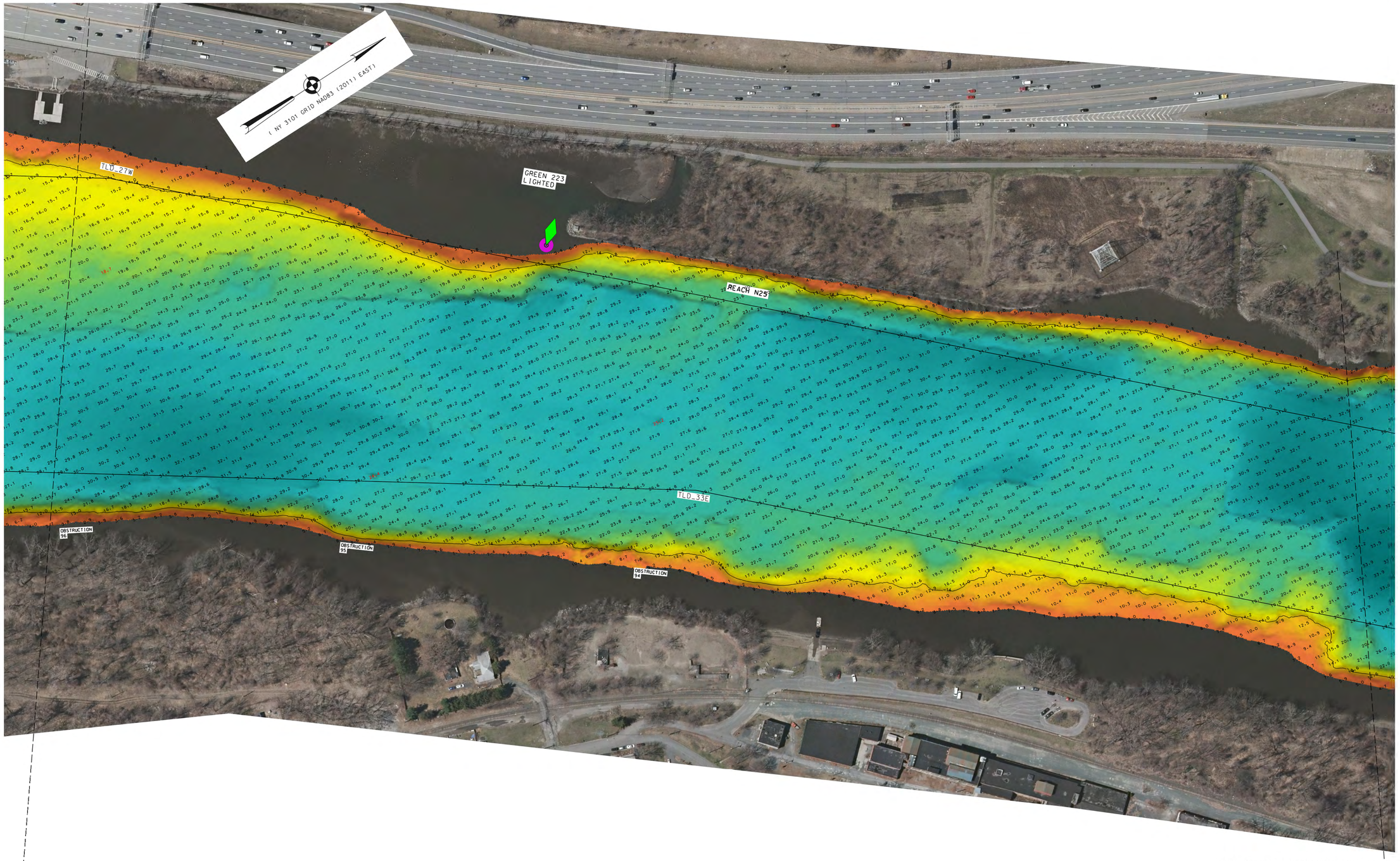
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-204

104 OF 123



MATCH TO SHEET 104

MATCH TO SHEET 106

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

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

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	BJ
	WP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REQ. NO./FILE NO.: 15303/CAWOOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE ARCHAMBAULT, DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

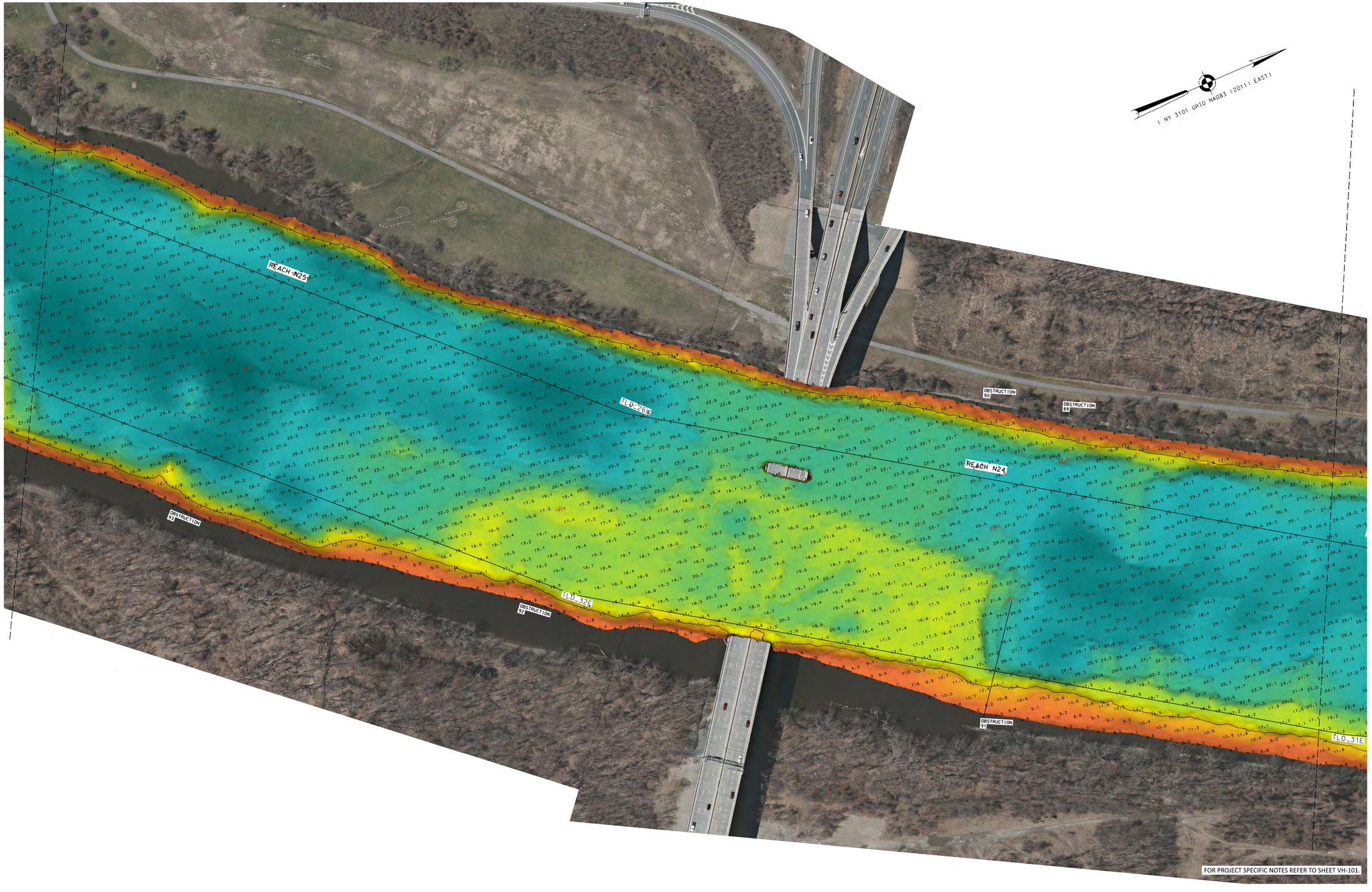
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
HUDSON RIVERNEW YORK
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-205

105 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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

		PR	BJJ
		WP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REQ. NO./FILE NO.: 5303/CANOOD

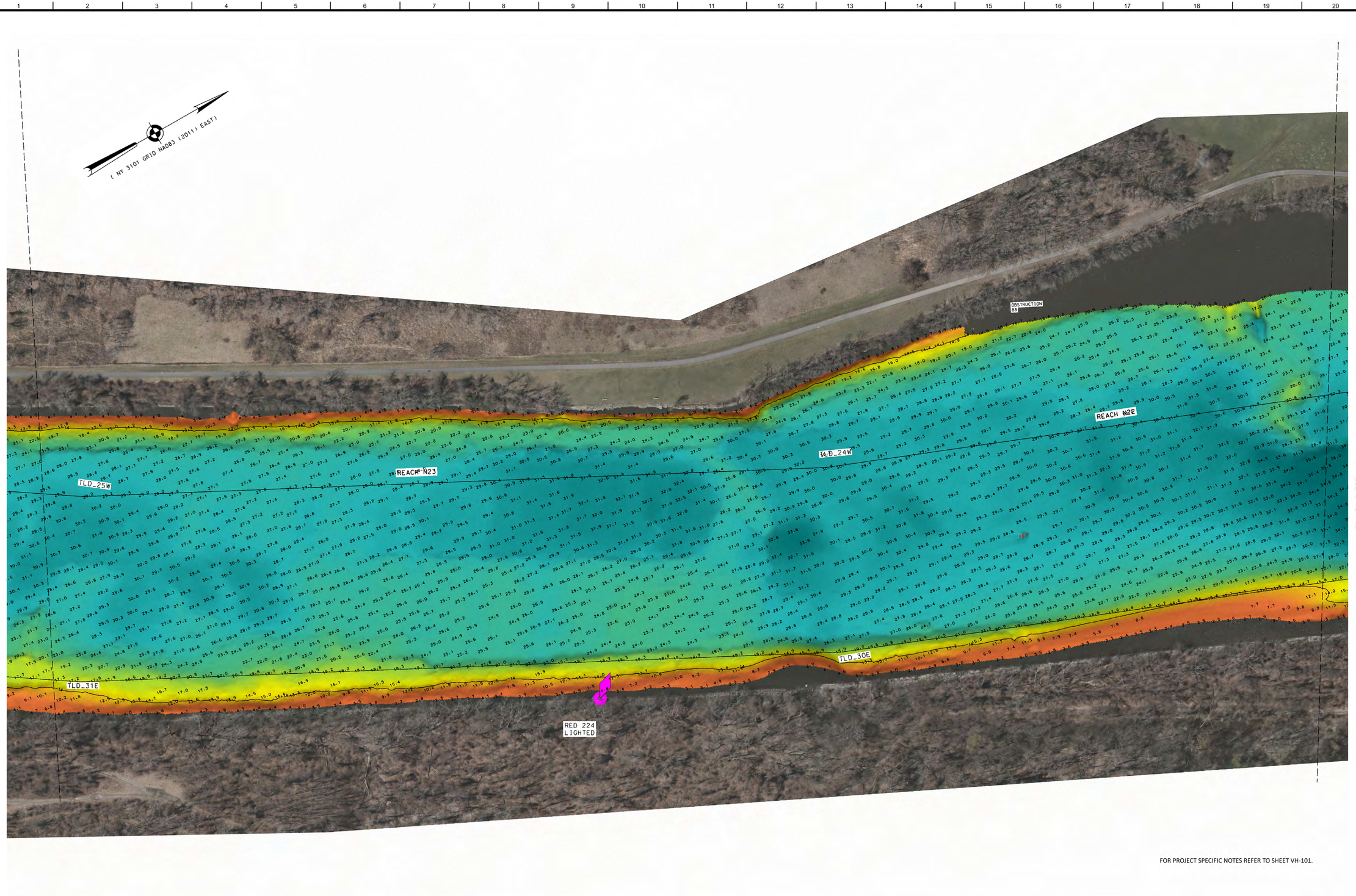
APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: JILL MCKAY, CHIEF OF OPERATIONS DIVISION
DATE: 29 AUGUST 2023

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-206



MATCH TO SHEET 106

MATCH TO SHEET 108

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

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

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	PR	BJ
	MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. ND./FILE NO.: 5303/CAWOOD

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

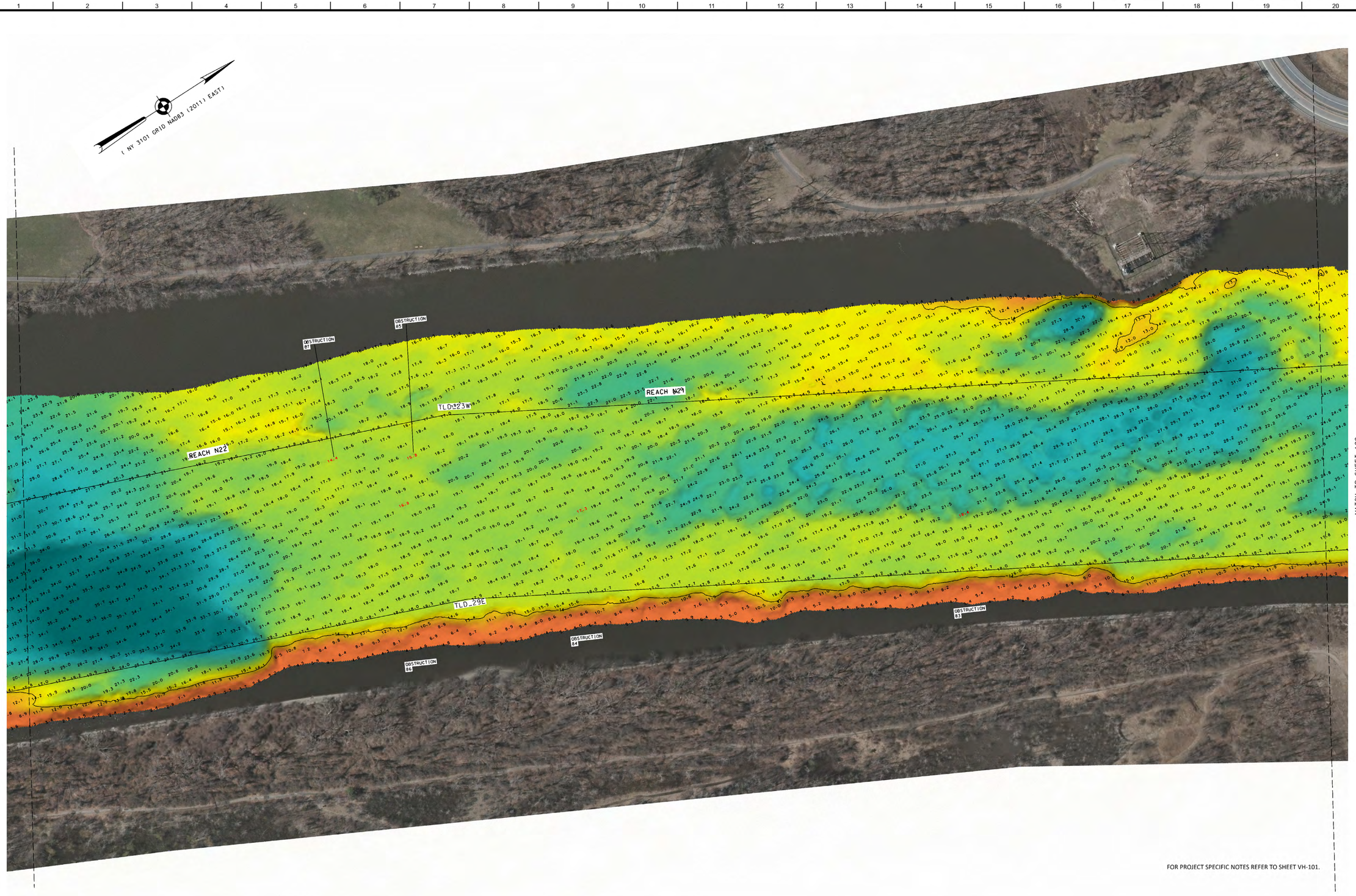
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-207

107 OF 123



FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

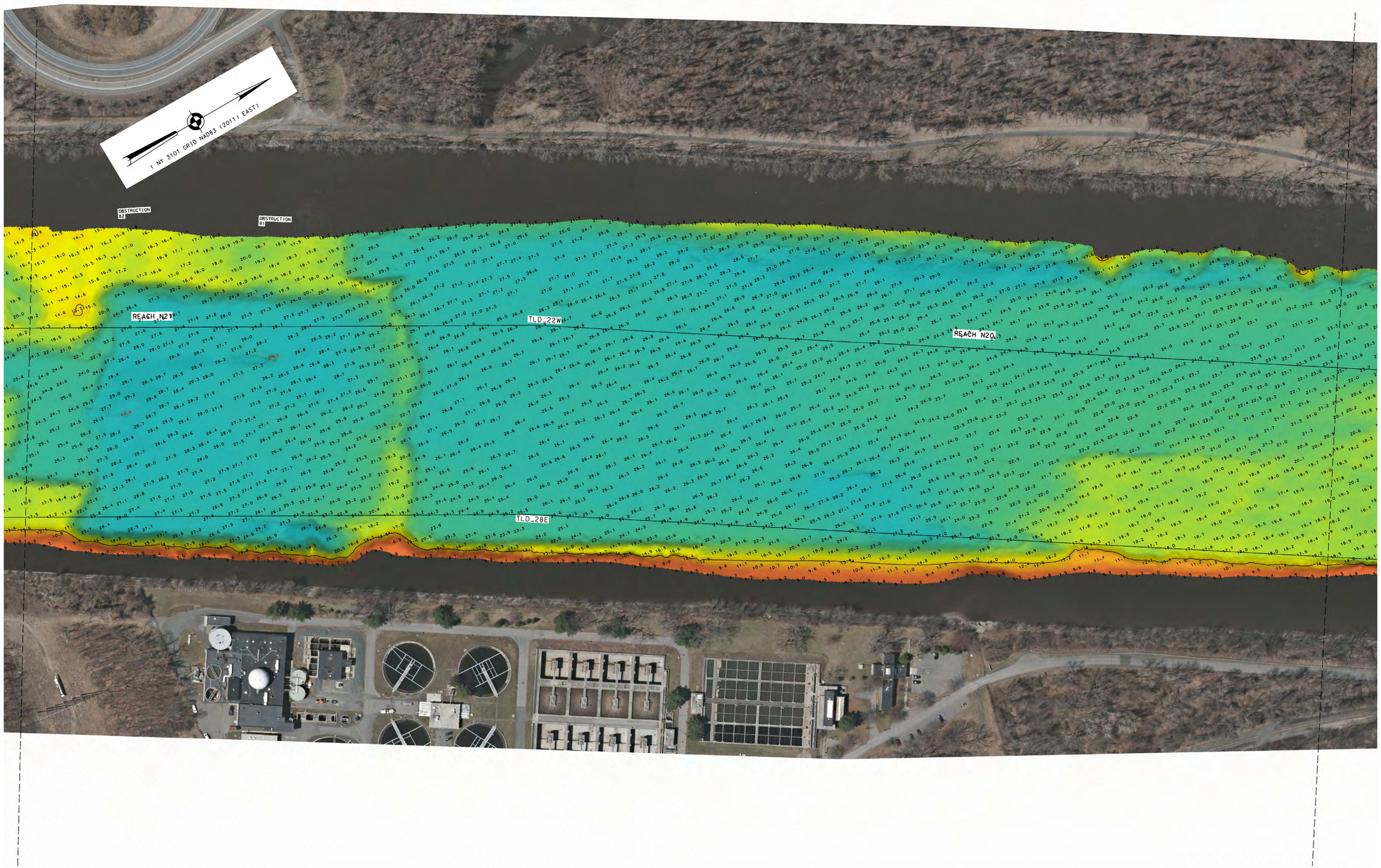
APPROVED:	M. HOLDEN, FIELD CARTOGRAPHER
APPROVED:	R. SMITH, CIVIL ENGINEERING TECH
APPROVED:	P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MEAZ, DEPUTY CHIEF, GEOSPATIAL GRAPHICS AND MAPPING BRANCH
DATE:	29 AUGUST 2023

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-208



MATCH TO SHEET 108

MATCH TO SHEET 110

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:BBDR68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

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

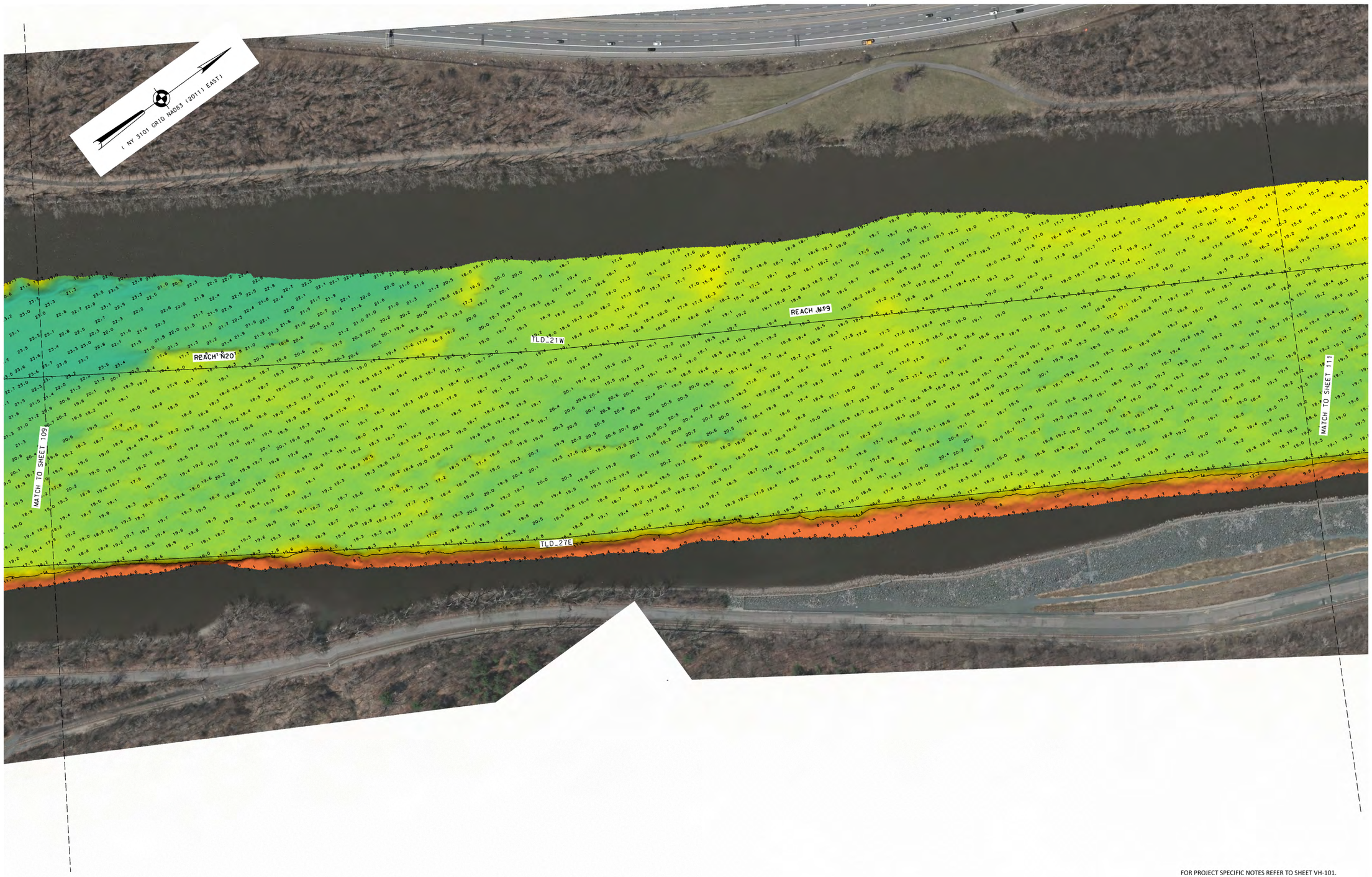
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-209

109 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:BBDR68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

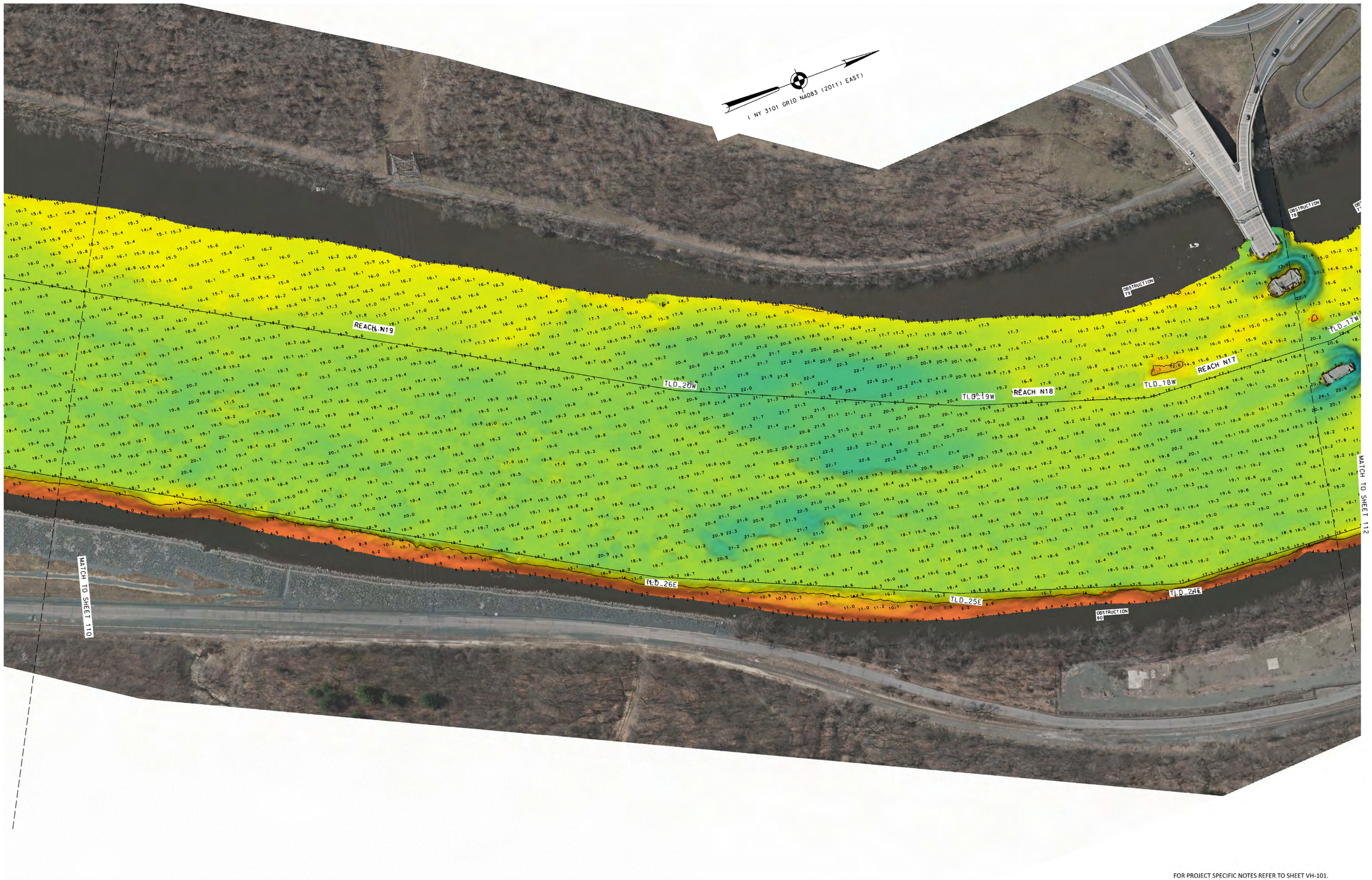
APPROVED:	M. HOLDEN, FIELD CARTOGRAPHER
APPROVED:	R. SMITH, CIVIL ENGINEERING TECH
APPROVED:	P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MRAZ, DEPUTY CHIEF, OPERATIONS AND MAPPING BRANCH
DATE:	29 AUGUST 2023

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-210



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) 251-9282
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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

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

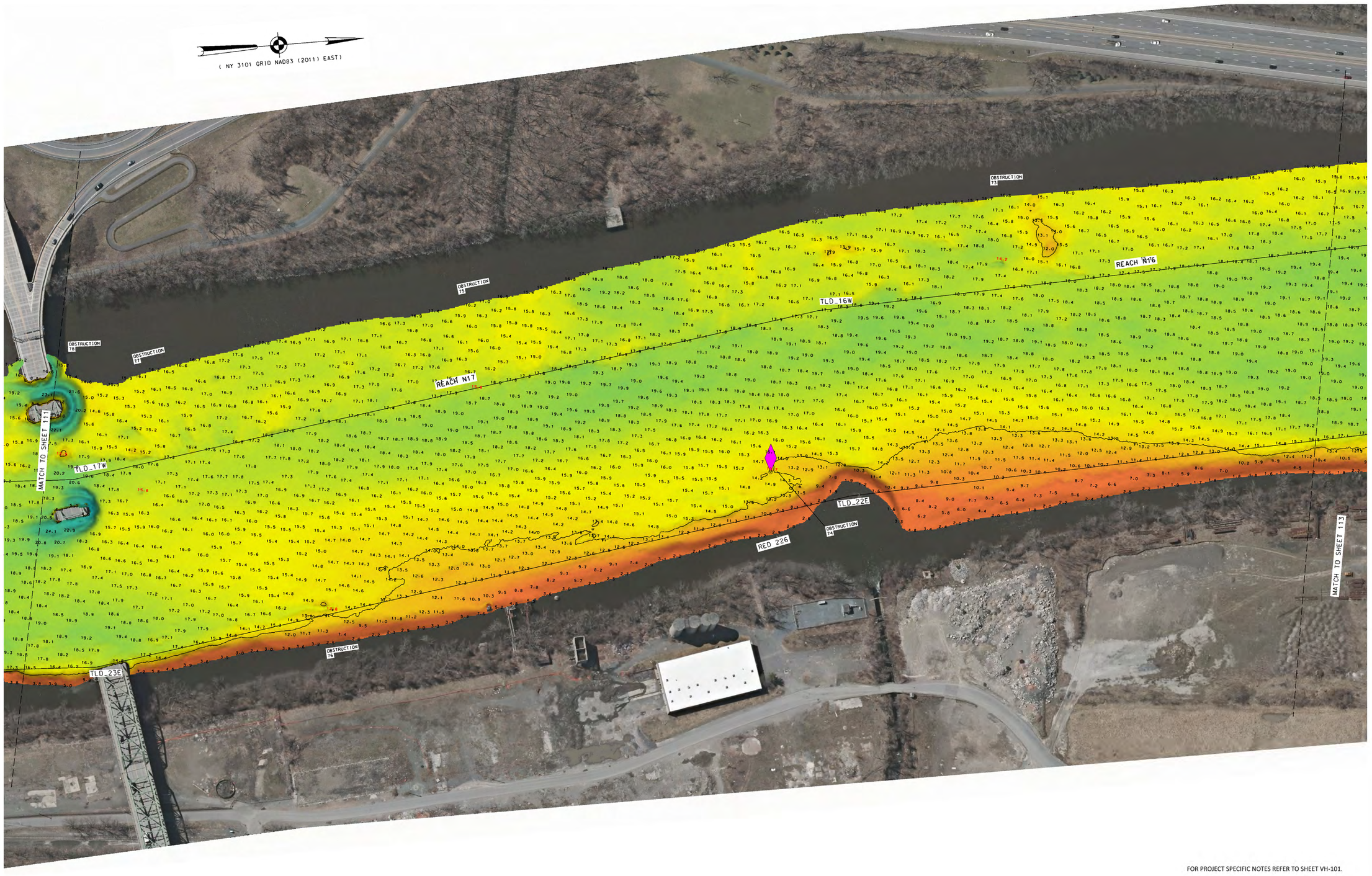
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-211

111 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			
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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

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

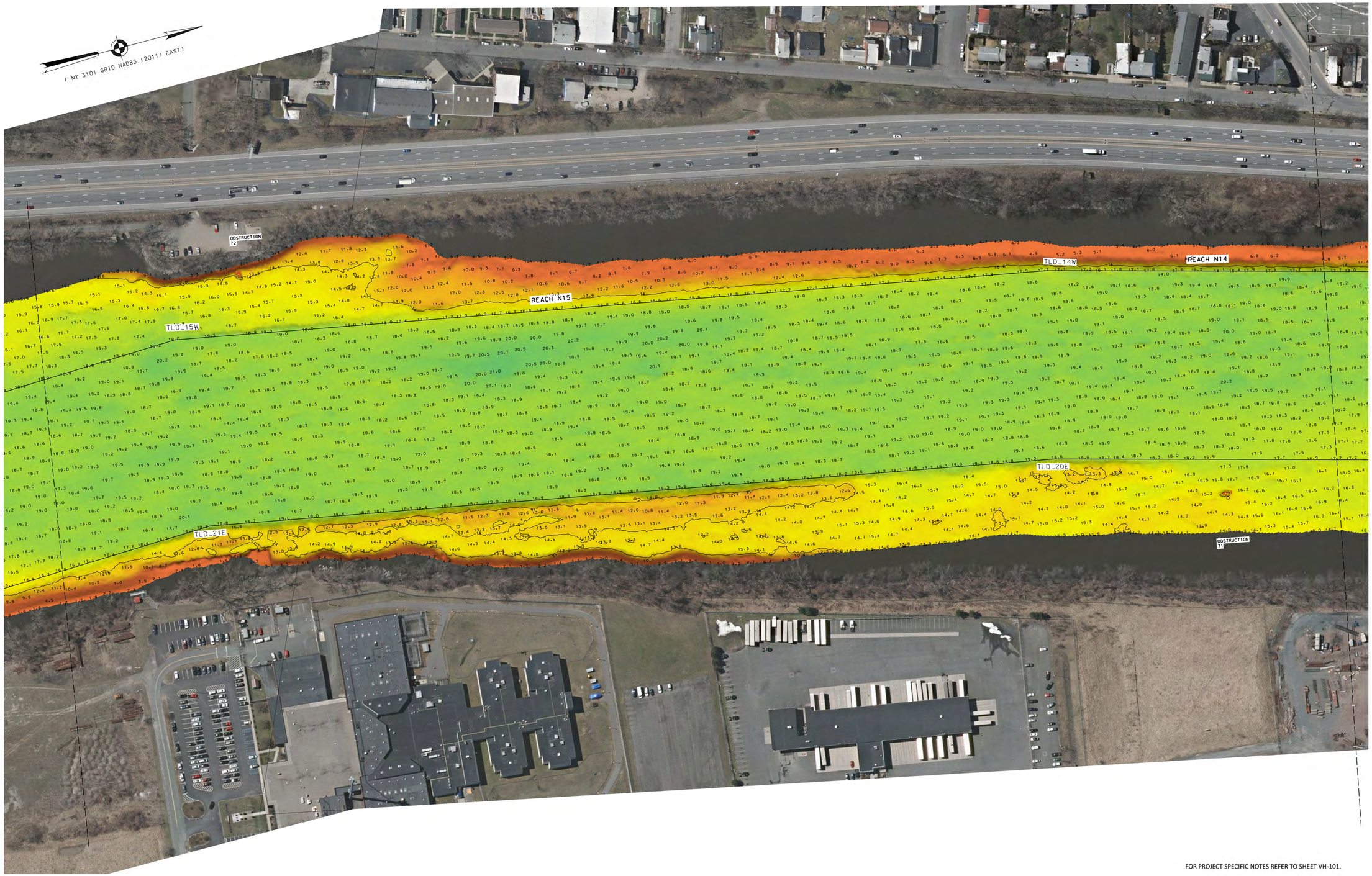
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-212

112 OF 123



FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

McKIM&CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-9282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	BJJ
	MH
	PR
	MP

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REQ. NO./FILE NO.: 15303/CAWOOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE A. BRADLEY, CHIEF, GEOSPATIAL SERVICES AND MAPPING BRANCH
DATE: 29 AUGUST 2023

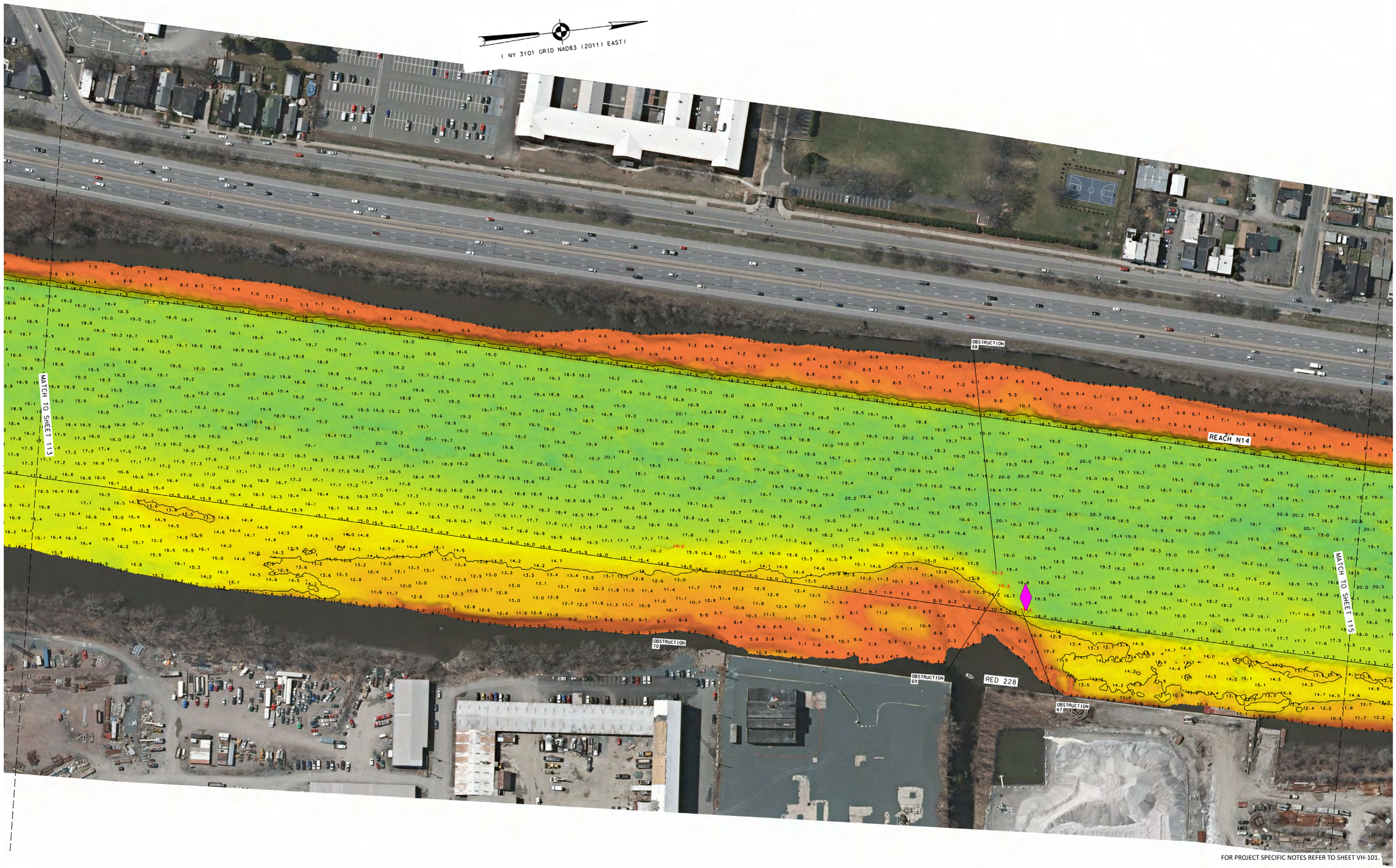
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-213

113 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) 343-1068
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:BBDR68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD38)	ELEVATION: 25.32' (NAVD88)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 15303/CAWOOD

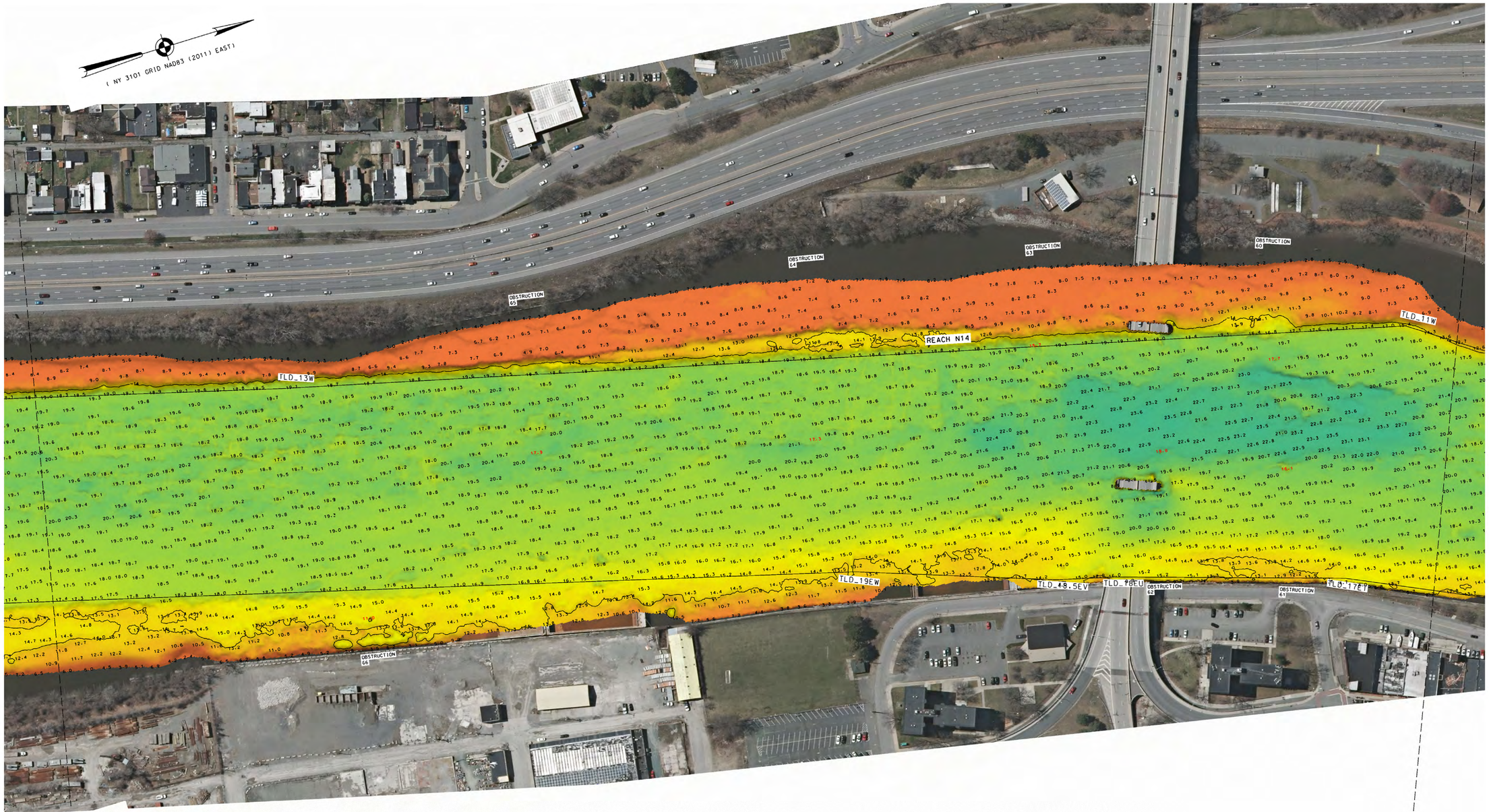
APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MRAZ, DEPUTY CHIEF, GRAPHICS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

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-214



MATCH TO SHEET 116

FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

0 100' 200'

McKIM&CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 251-1048
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:BBDR68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIRAZ CHOWDHURY, DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

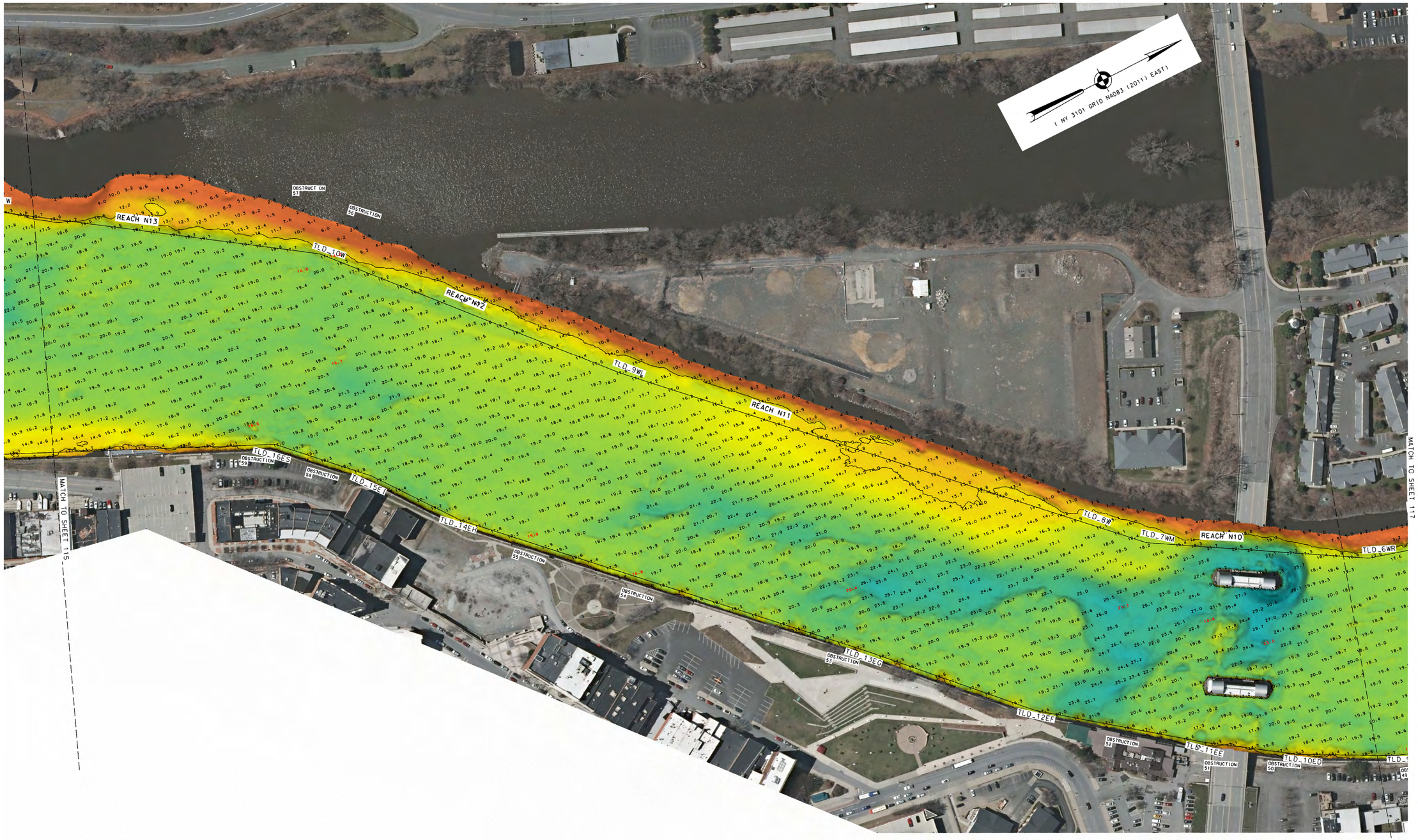
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-215

115 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:BBDR68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

		PR	BJ
		MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

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

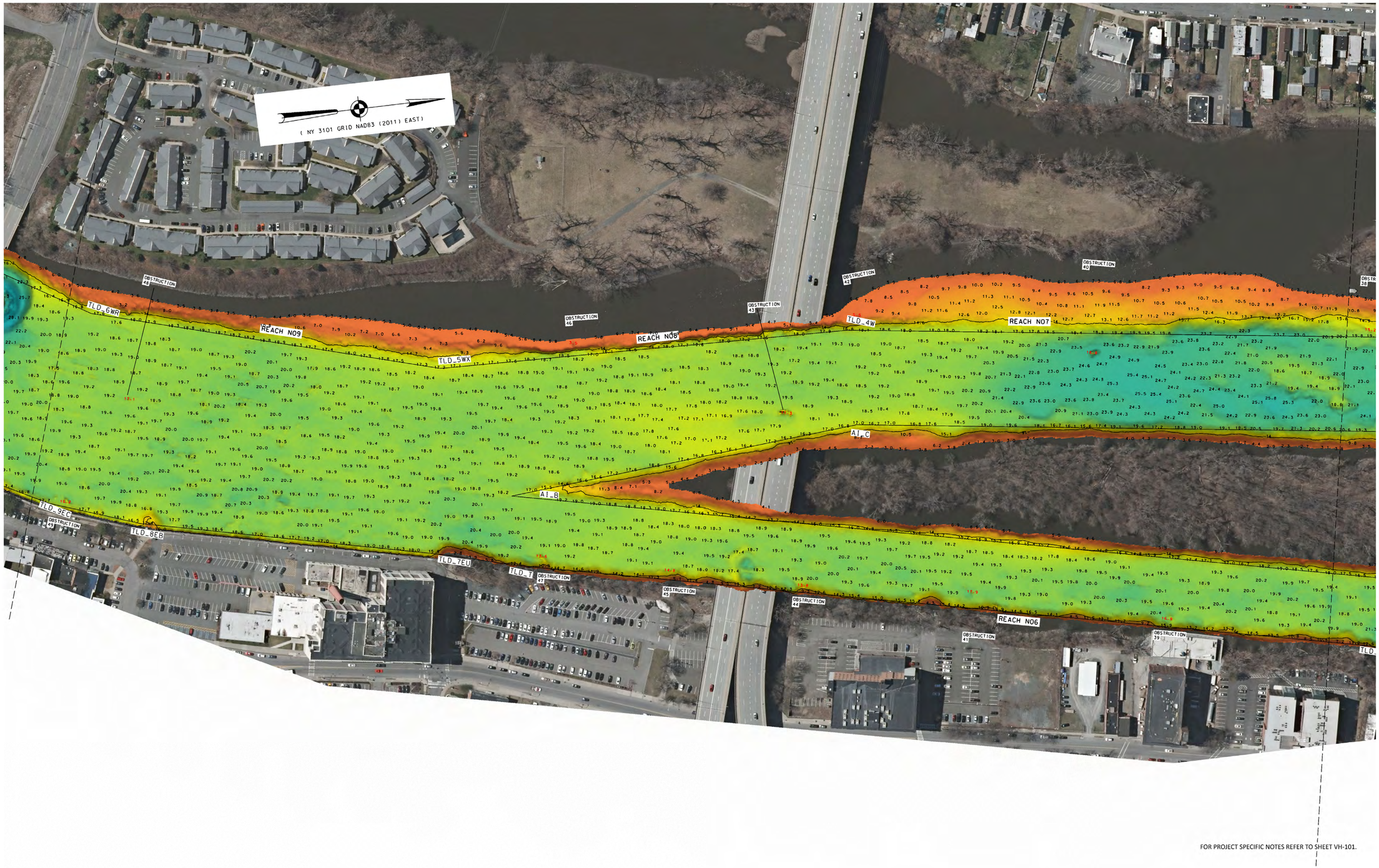
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-216

116 OF 123



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: 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

		PR	BJ
		MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

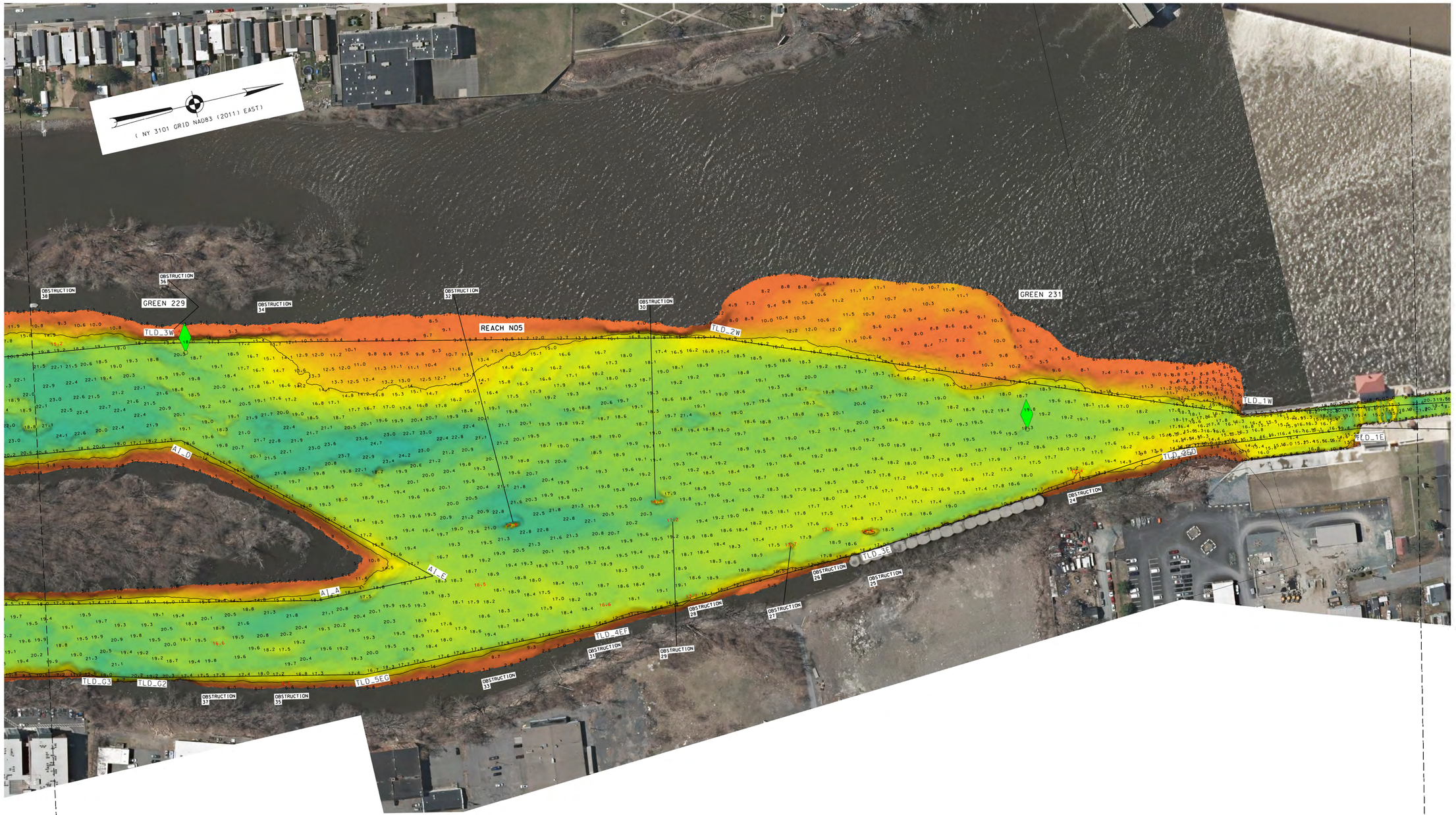
APPROVED:	M. HOLDEN	FIELD CARTOGRAPHER
APPROVED:	R. SMITH	CIVIL ENGINEERING TECH
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MRAZ	DEPUTY CHIEF, GRAPHICS AND MAPPING BRANCH
DATE:	29 AUGUST 2023	

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-217



FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

McKIM&CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-8682
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

LOCAL CONTROL DATA			
BENCHMARK: HR-12		BENCHMARK: O1-1	
ELEVATION: 8.67'	(NAVD88)	ELEVATION: 3.87'	(NAVD88)

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	BJ
	WP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADURI, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE MRAZ, CHIEF, HYDROGRAPHICS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

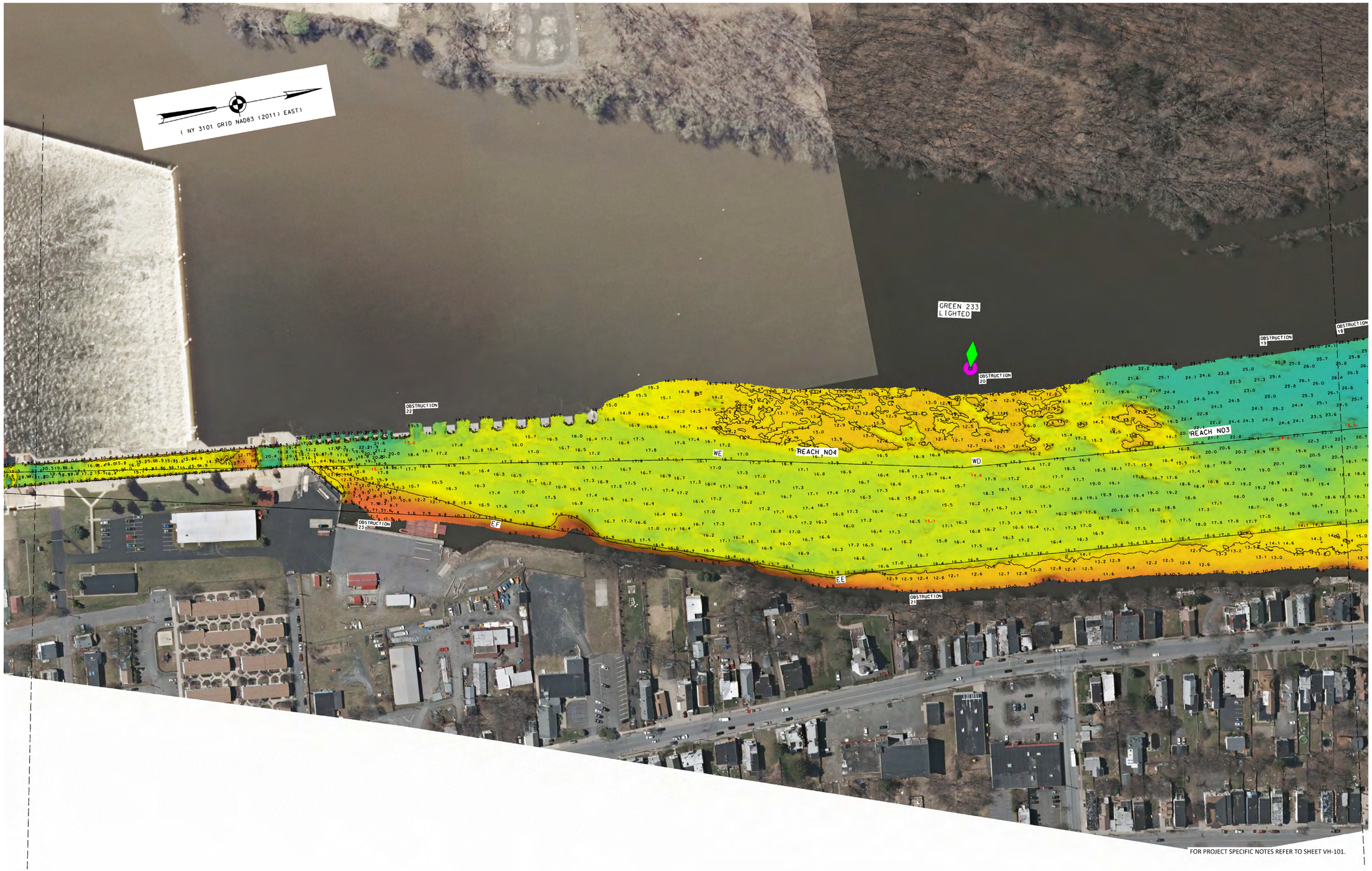
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-218

118 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		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

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

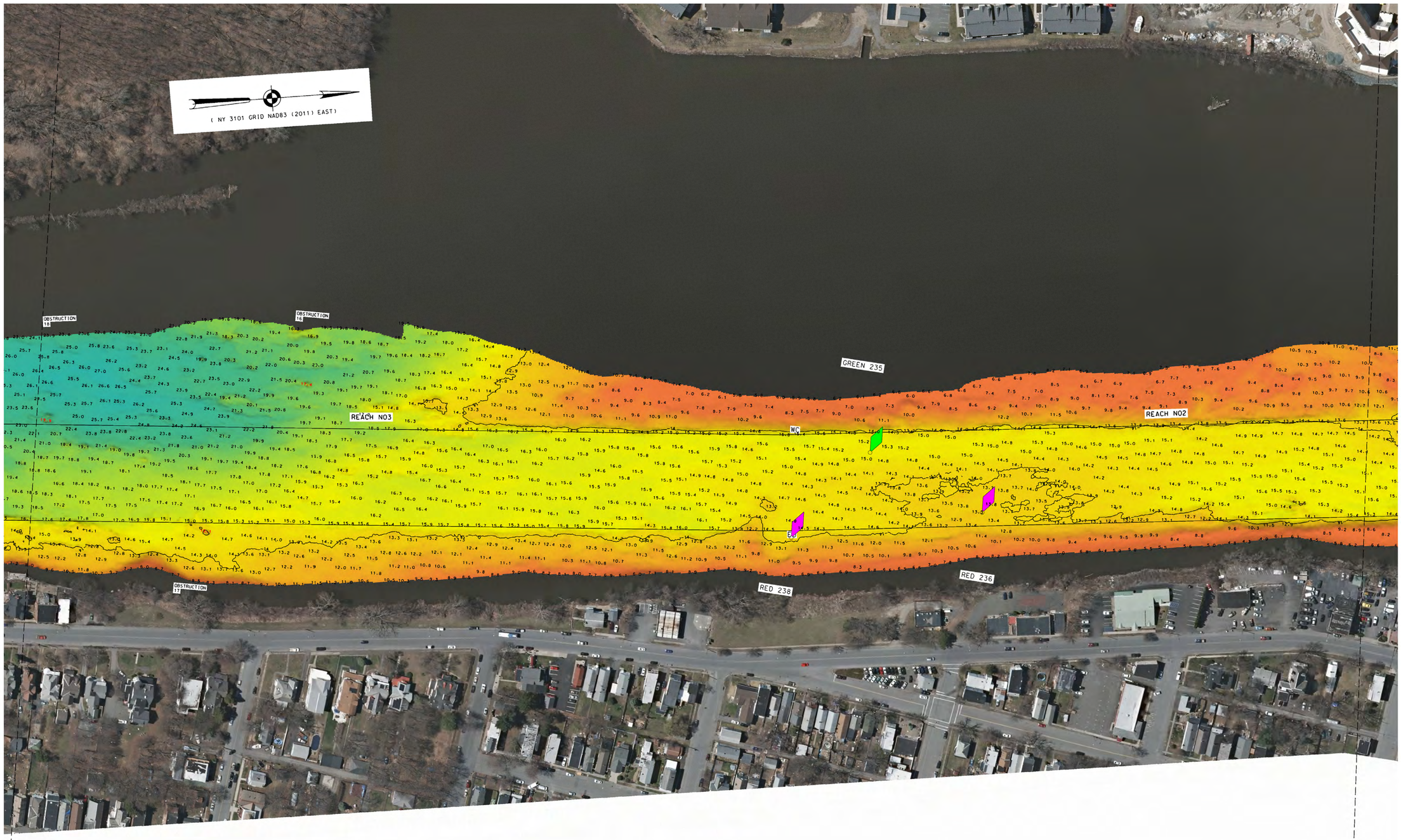
APPROVED:	M. HOLDEN	FIELD CARTOGRAPHER
APPROVED:	R. SMITH	CIVIL ENGINEERING TECH
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	MRAZ	DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH
DATE:	29 AUGUST 2023	

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-219



MATCH TO SHEET 119

MATCH TO SHEET 121

0 100' 200'

FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

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:BBDR68)
ELEVATION: 8.67' (NAVD88)	ELEVATION: 3.87' (NAVD88)	ELEVATION: 25.32' (NAVD88)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

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

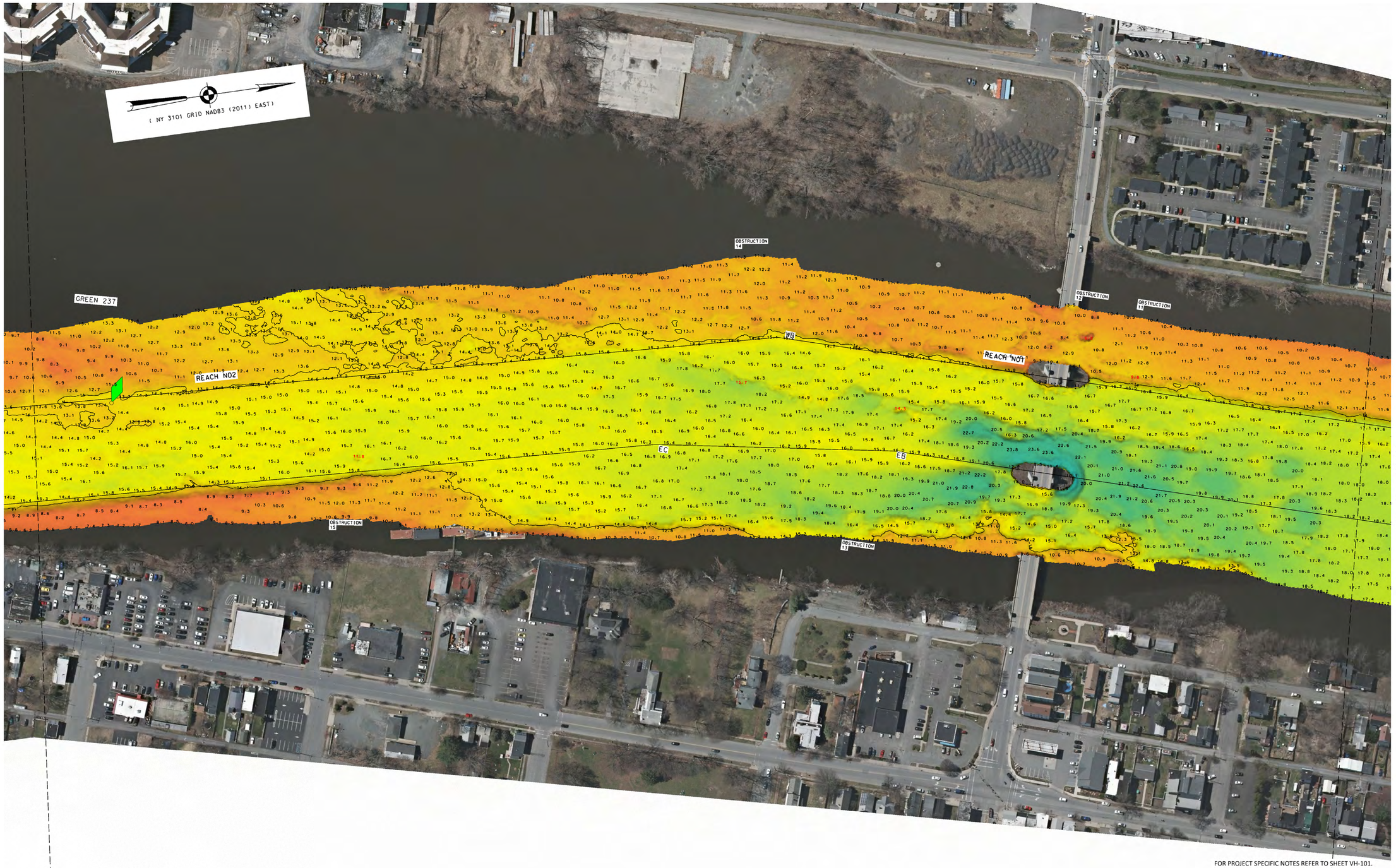
APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MRAZ, DEPUTY CHIEF, OPERATIONS AND MAPPING BRANCH
DATE: 29 AUGUST 2023

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-220



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

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	BJ
	MP	MH

SCALE: ONE INCH = 100 FEET

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 15303/CAWOOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MEAZ, CHIEF, OPERATIONS DIVISION
DATE: 29 AUGUST 2023

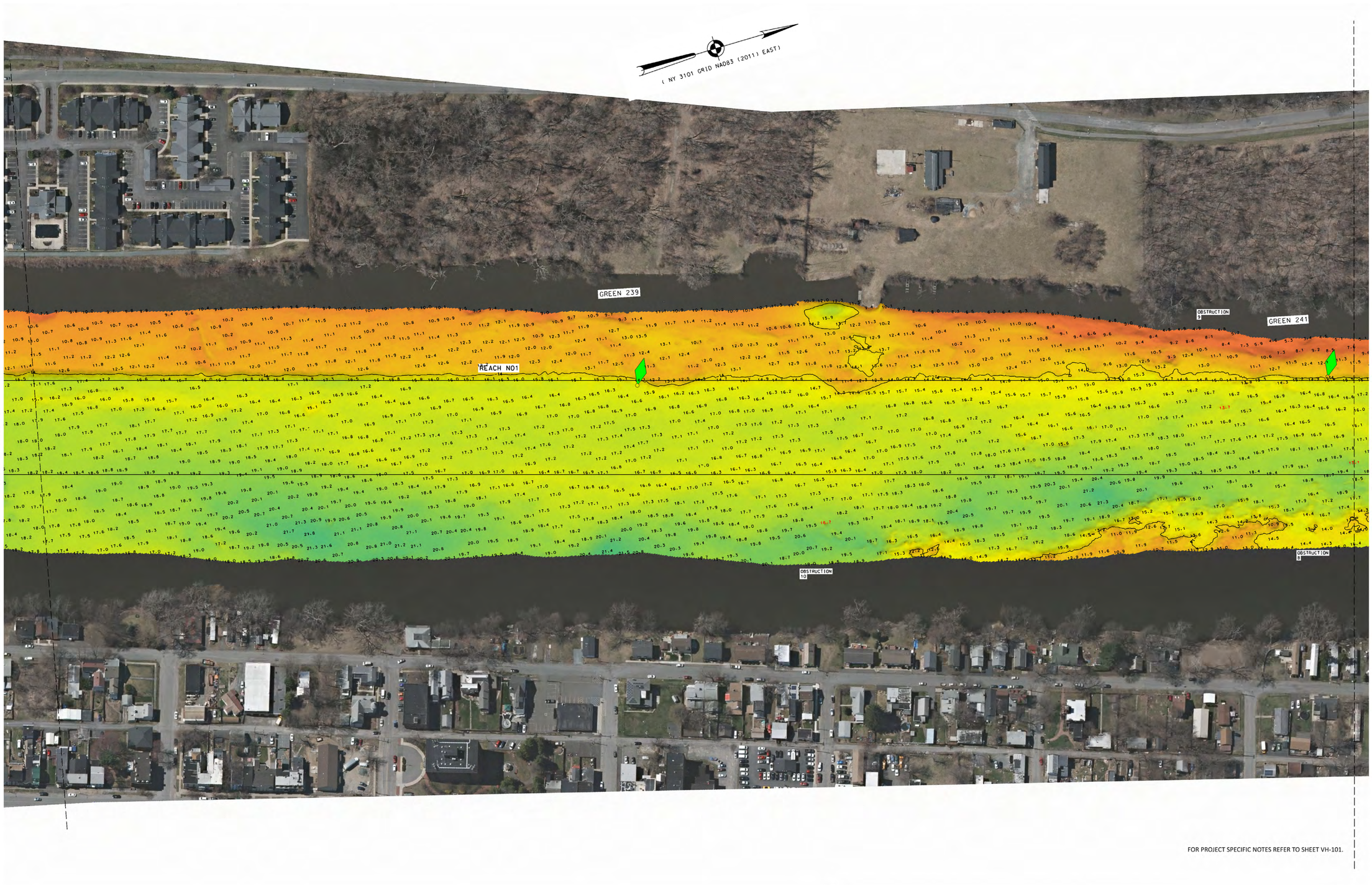
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-221

121 OF 123



MATCH TO SHEET 121

MATCH TO SHEET 123

FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

0 100' 200'

McKIM&CREED
245 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)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

						BJJ	MH
						PR	
						MP	

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. ND./FILE NO.: 5303/CAWOOD

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

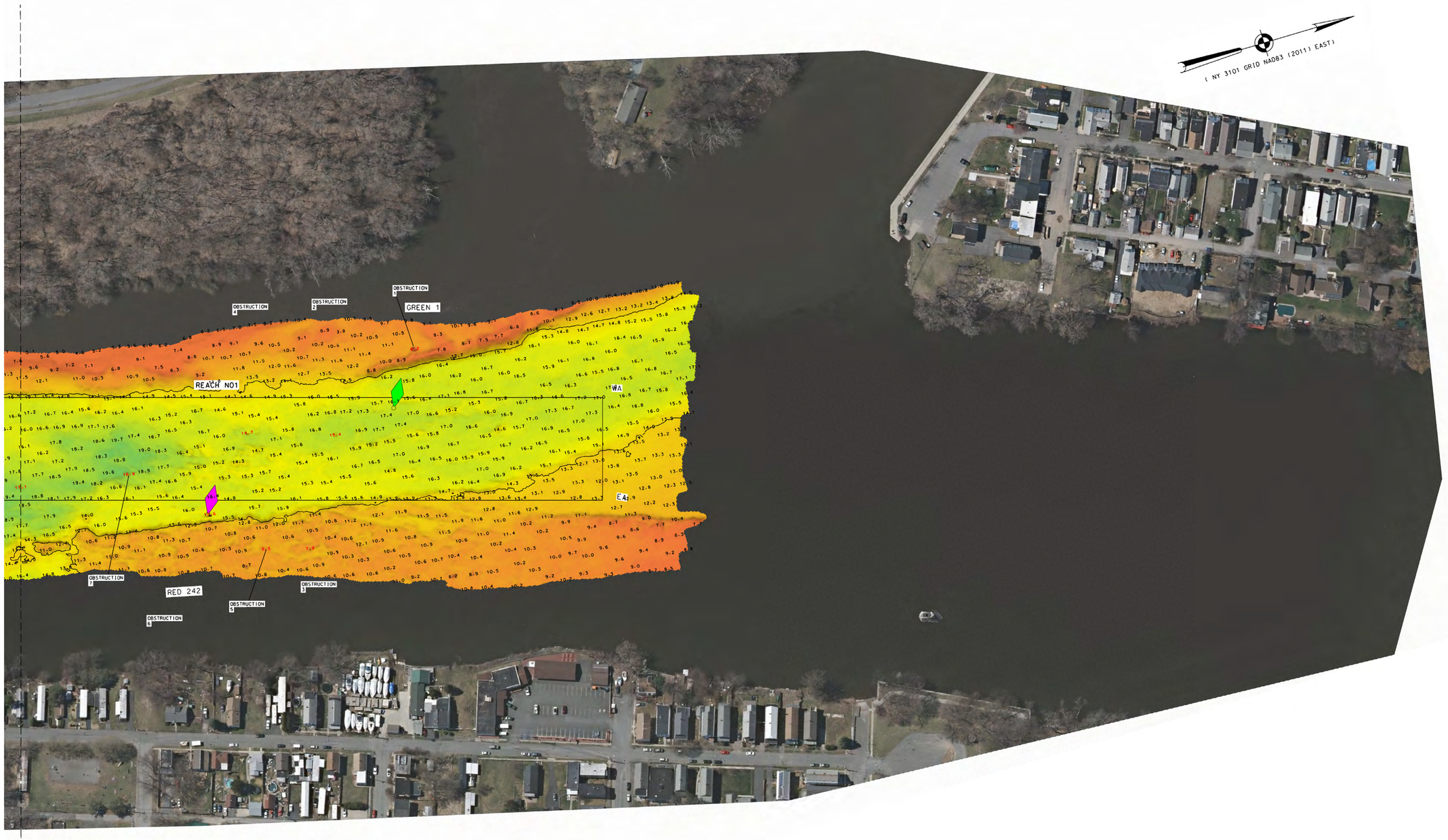
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

HUDSON RIVER
KINGSTON TO WATERFORD
NEW YORK
HYDROGRAPHIC CONDITION SURVEY

VH-222

122 OF 123



FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101.

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)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	BJ
MP	MH

DATES OF SURVEY:
07 AUGUST 2023
TO
29 AUGUST 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
2184
2175

REG. NO./FILE NO.: 5303/CAWOOD

APPROVED: M. HOLDEN, FIELD CARTOGRAPHER
APPROVED: R. SMITH, CIVIL ENGINEERING TECH
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MRAZ, 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-223

123 OF 123