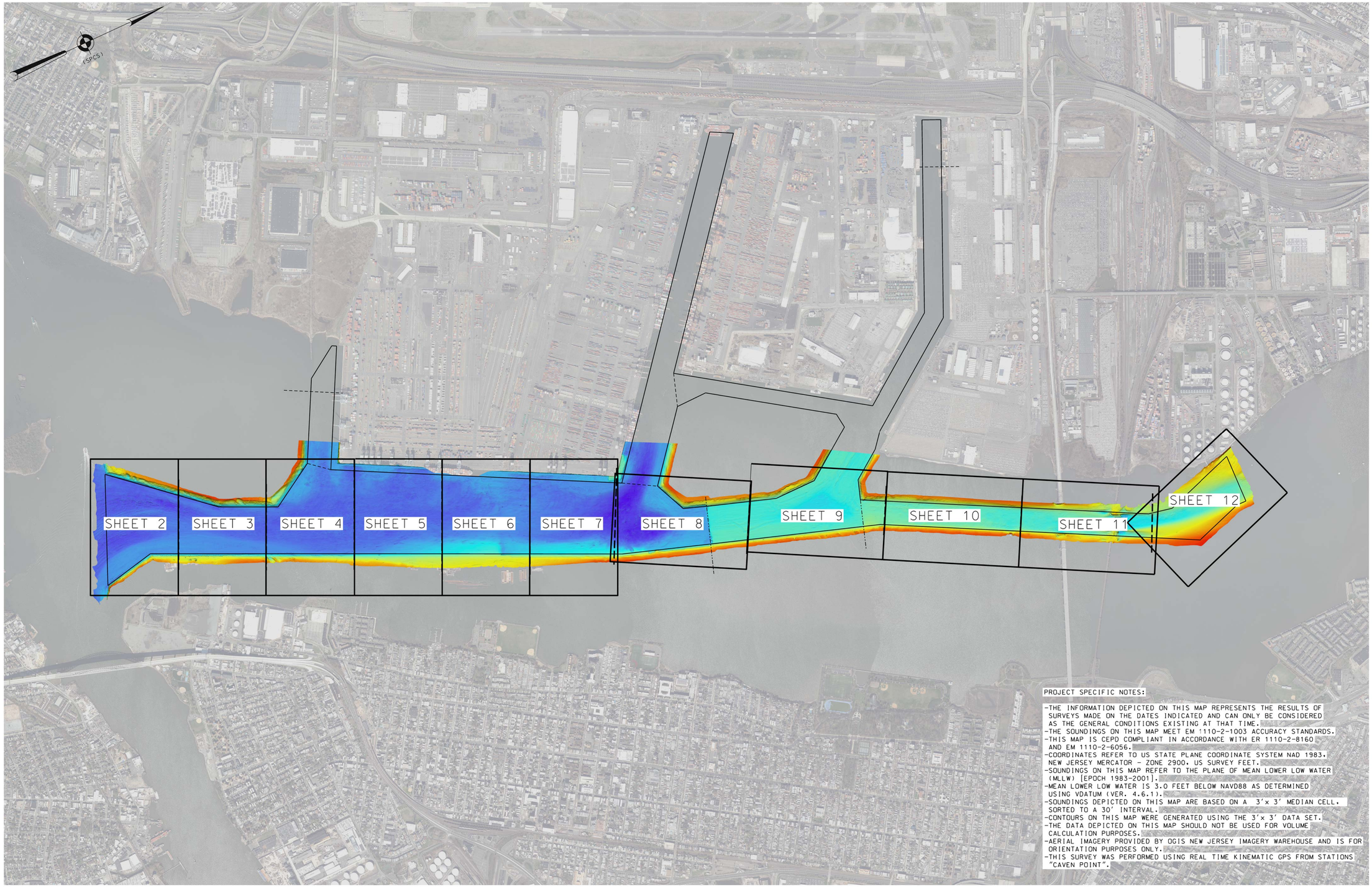

PROJECT SPECIFIC NOTES:

- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- THE SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.
- COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983, NEW JERSEY MERCATOR - ZONE 2900, US SURVEY FEET.
- SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) [EPOCH 1983-2001].
- MEAN LOWER LOW WATER IS 3.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.6.1).
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3'x 3' MEDIAN CELL, SORTED TO A 30' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 3'x 3' DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- AERIAL IMAGERY PROVIDED BY OGIS NEW JERSEY IMAGERY WAREHOUSE AND IS FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATIONS "CAVEN POINT".

0 1000' 2000'

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: NBAY 2	BENCHMARK: P 38 (PID:KV0333)
ELEVATION: 7.41' (NAVD 1988)	ELEVATION: 21.93' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

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	MP	JE

DATES OF SURVEY:
1:16,23-24,29-31 JAN 2024

SCALE:
ONE INCH = 1000 FEET

FIELD BOOKS:
1057

REQ. NO./FILE NO.: 5400/0/N1

APPROVED: P. KEARNS/J. BERTOLOTTI
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIRAZ
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 23 FEBRUARY 2024

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

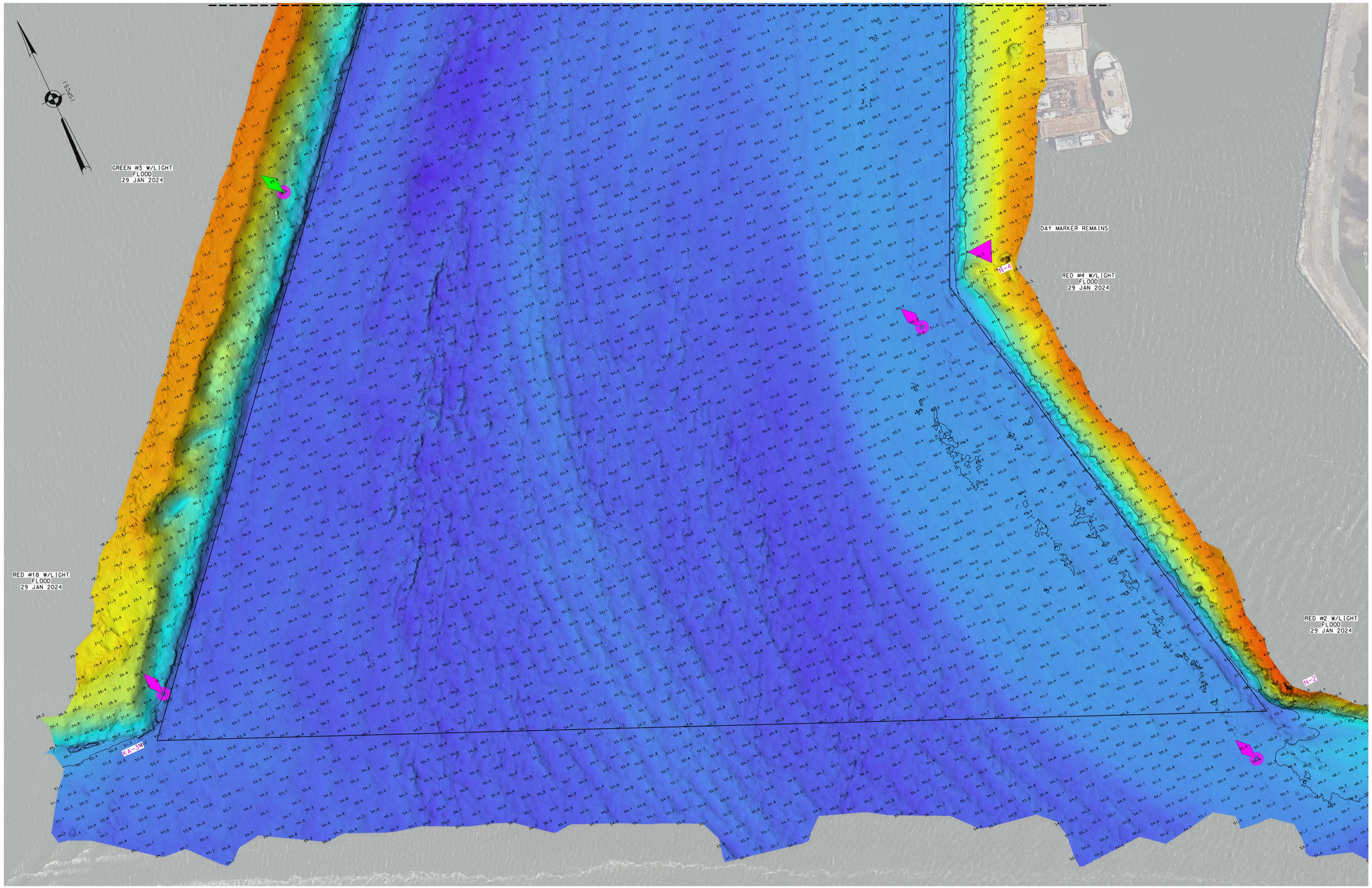
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK, & PASSAIC RIVERS
NEW JERSEY
MAIN CHANNEL
CONDITION SURVEY

VH-101

1 OF 12

MATCH TO SHEET 3



0 100' 200'

*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	ESO
MP	JE

DATES OF SURVEY:
1.16,23-24,29-31 JAN 2024

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1057

REQ. NO./FILE NO.: 5400/0/N1

APPROVED: P. KEARNS, J. BERTOLOTTI
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIRAZ
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 23 FEBRUARY 2024

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

OPERATIONS DIVISION
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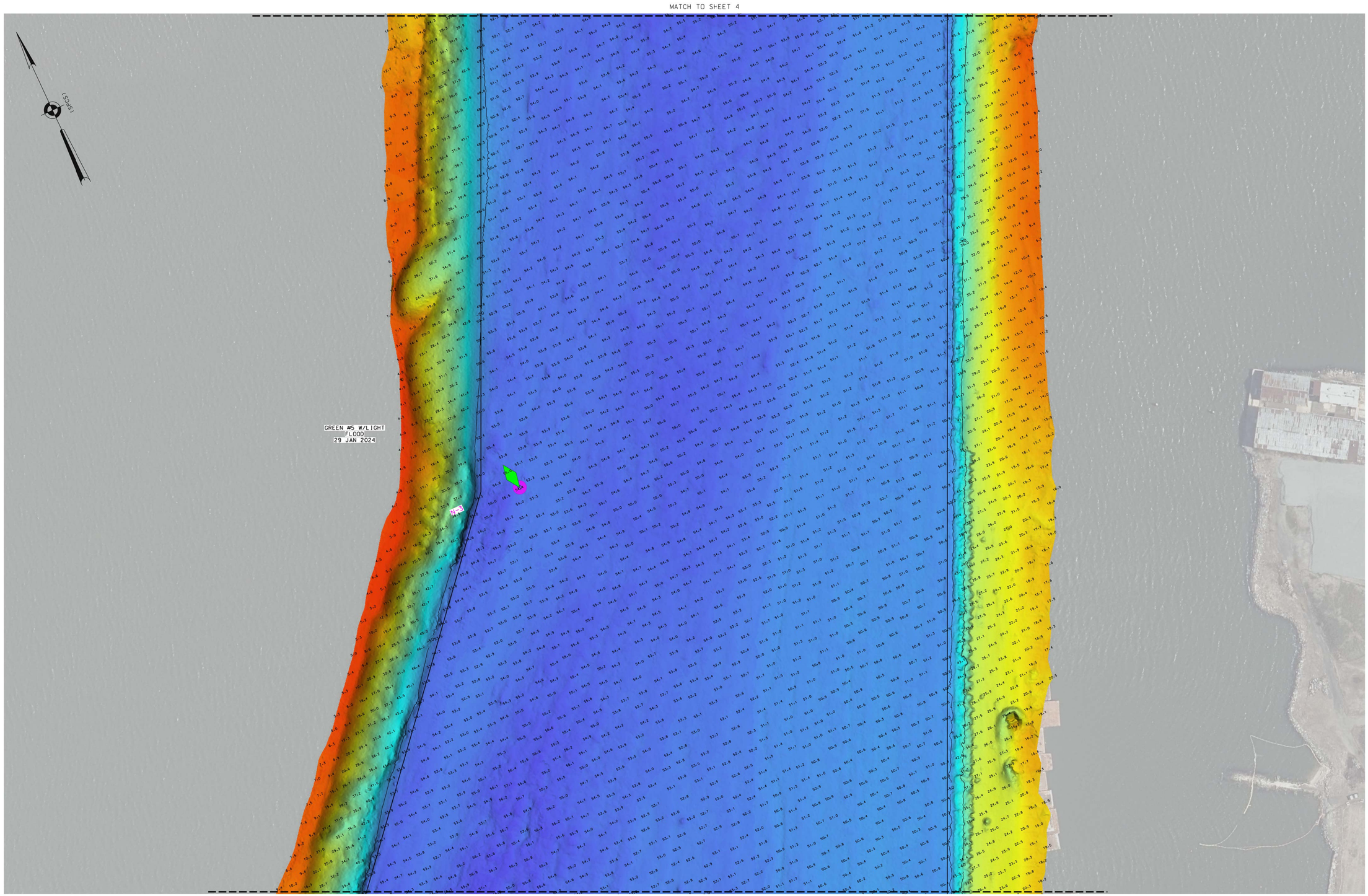
CENAN-OP-SS

NEWARK BAY, HACKENSACK, & PASSAIC RIVERS
NEW JERSEY
MAIN CHANNEL
CONDITION SURVEY

VH-102

2 OF 12



0 100' 200'

*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	ESO
MP	JE

DATES OF SURVEY:
1.16,23-24,29-31 JAN 2024

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1057

REQ. NO./FILE NO.: 5400/0/N1

APPROVED: P. KEARNS/J. BERTOLOTTI
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIRAZ
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 23 FEBRUARY 2024

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

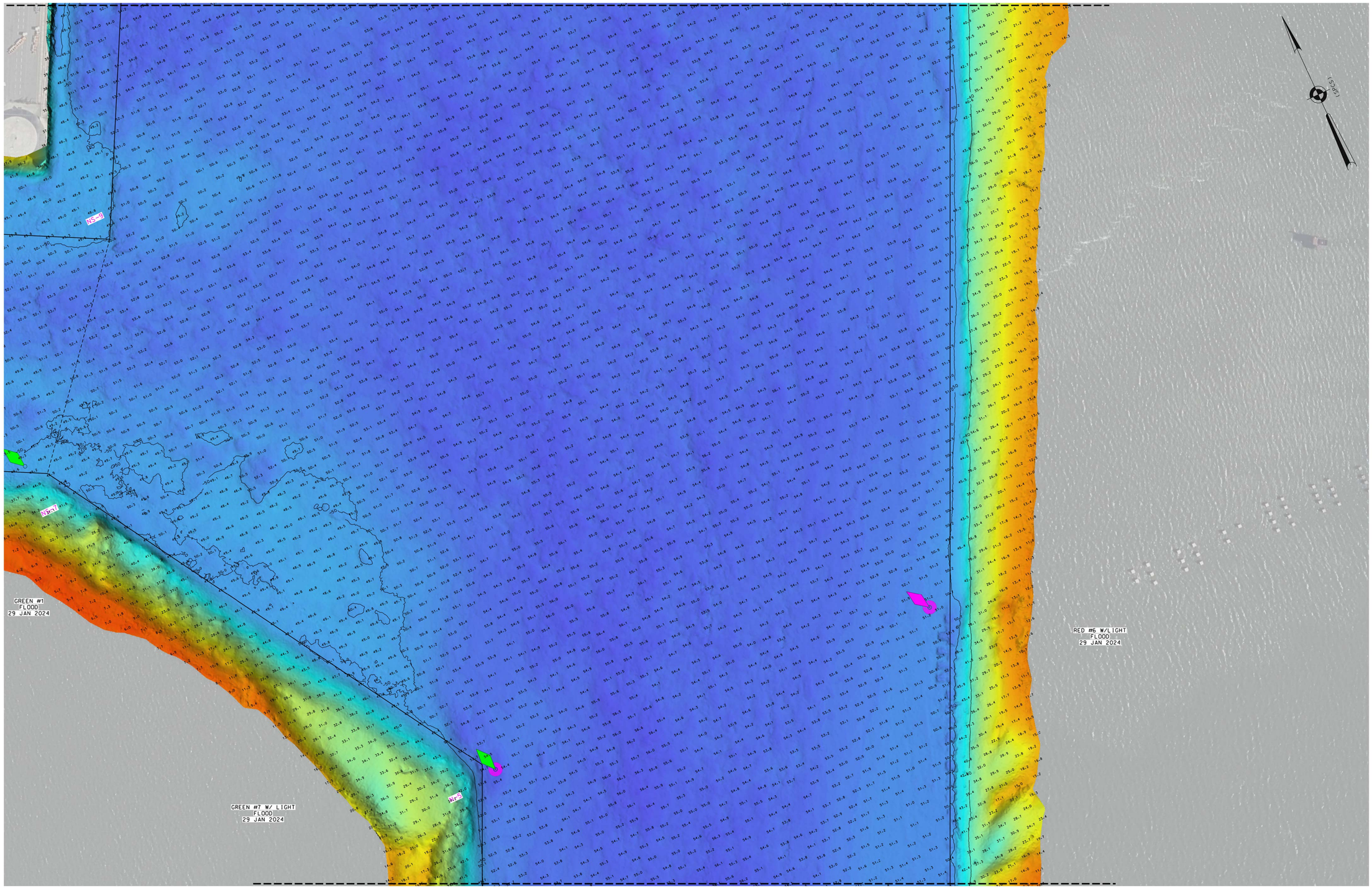
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK, & PASSAIC RIVERS
NEW JERSEY
MAIN CHANNEL
CONDITION SURVEY

VH-103

3 OF 12

MATCH TO SHEET 5



MATCH TO SHEET 3

0 100' 200'

*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	ESO	
MP	JE	

DATES OF SURVEY:
1,16,23-24,29-31 JAN 2024

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1057

REQ. NO./FILE NO.: 5400/0/N1

APPROVED: P. KEARNS/J. BERTOLOTTI
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIRAZ
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 23 FEBRUARY 2024

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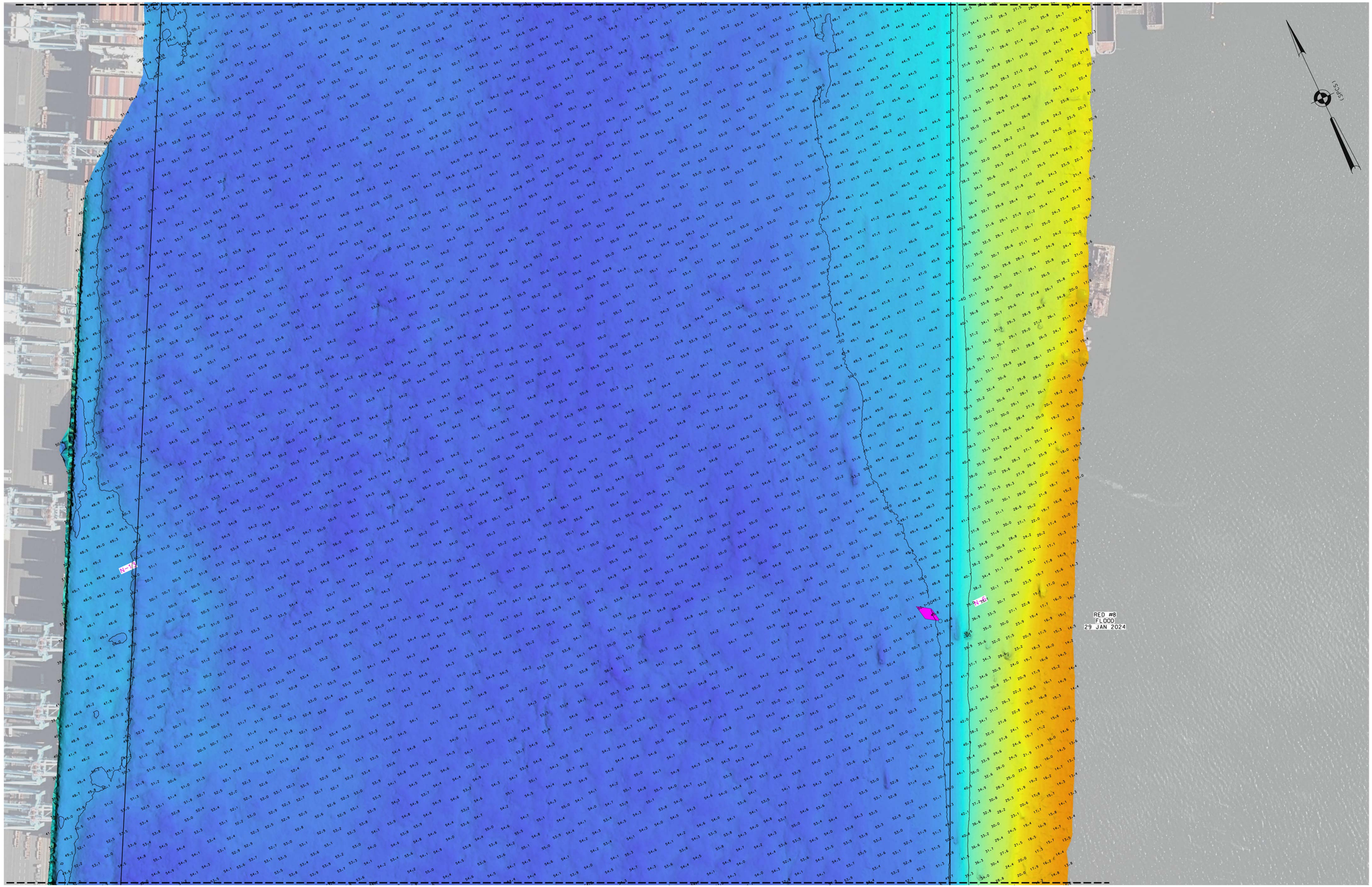
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK, & PASSAIC RIVERS
NEW JERSEY
MAIN CHANNEL
CONDITION SURVEY

VH-104

MATCH TO SHEET 6



MATCH TO SHEET 4

0 100' 200'

*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

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WP	JE

DATES OF SURVEY:
1:16,23-24,29-31 JAN 2024

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1057

REQ. NO./FILE NO.: 5400/0/N1

APPROVED: P. KEARNS/J. BERTOLOTTI
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIRAZ
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH

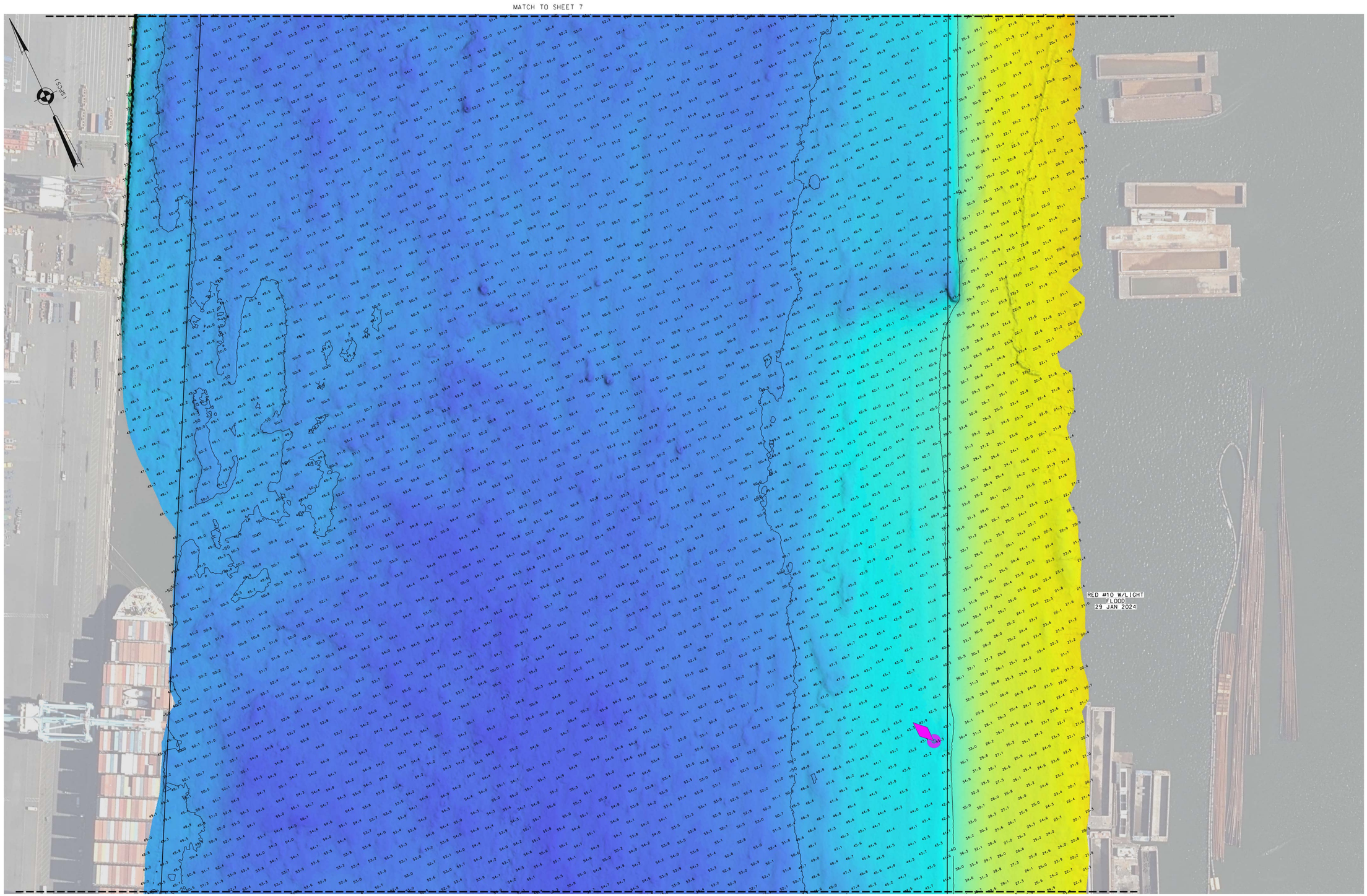
DATE: 23 FEBRUARY 2024

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

NEWARK BAY, HACKENSACK, & PASSAIC RIVERS
NEW JERSEY
MAIN CHANNEL
CONDITION SURVEY

VH-105



0 100' 200'

*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

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MP	JE

DATES OF SURVEY:
1.16.23-24.29-31 JAN 2024

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1057

REQ. NO./FILE NO.: 5400/0/N1

APPROVED: P. KEARNS/J. BERTOLOTTI
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIRAZ
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 23 FEBRUARY 2024

DEPARTMENT OF THE ARMY
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NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

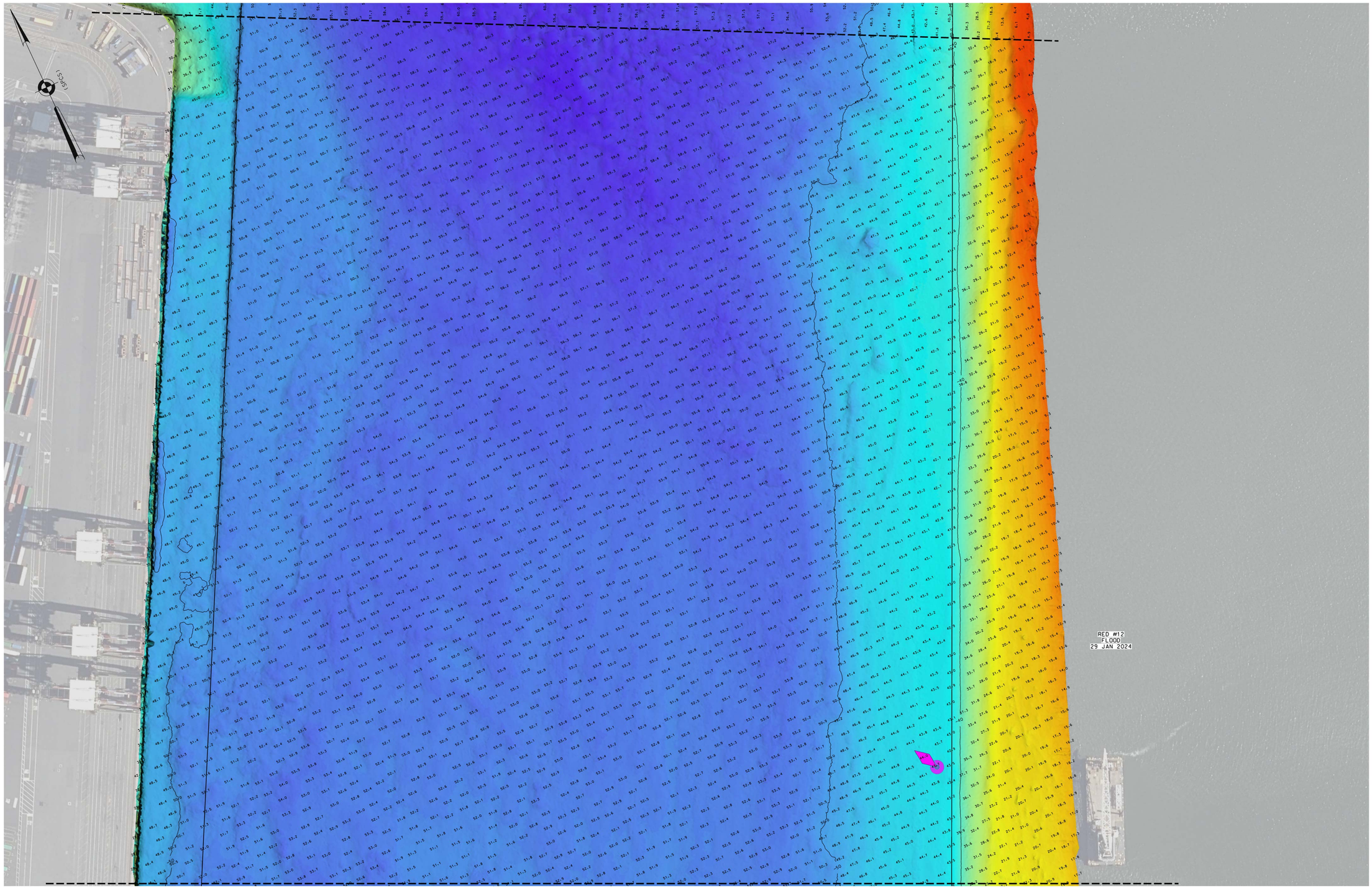
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK, & PASSAIC RIVERS
NEW JERSEY
MAIN CHANNEL
CONDITION SURVEY

VH-106

6 OF 12

MATCH TO SHEET 8



MATCH TO SHEET 6

0 100' 200'

*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS
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NEW YORK DISTRICT

PR	ESO	
MP	JE	

DATES OF SURVEY:
1.16,23-24,29-31 JAN 2024

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1057

REQ. NO./FILE NO.: 5400/0/N1

APPROVED: P. KEARNS/J. BERTOLOTTI
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIRAZ
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 23 FEBRUARY 2024

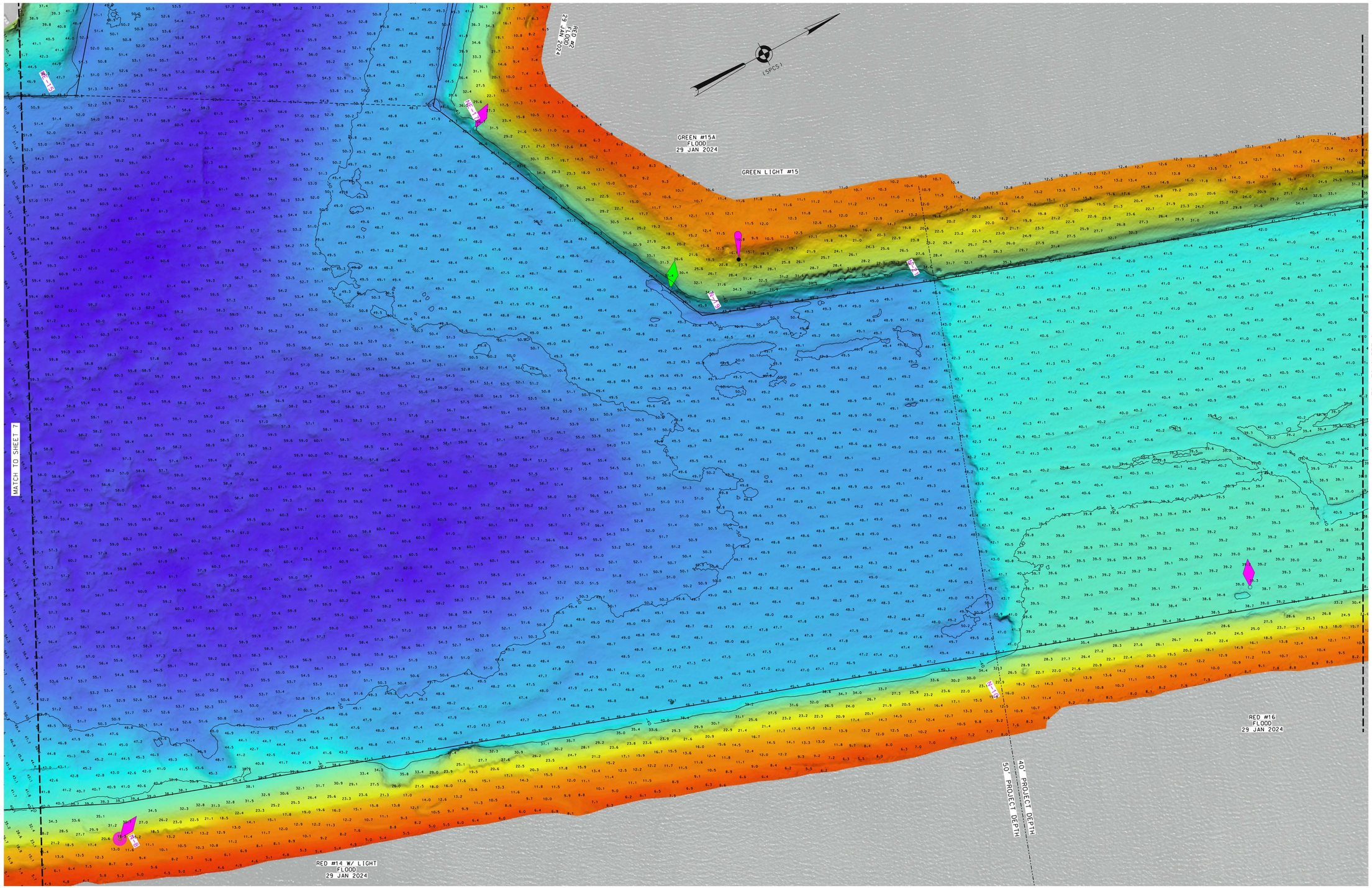
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK, & PASSAIC RIVERS
NEW JERSEY
MAIN CHANNEL
CONDITION SURVEY

VH-107

7 OF 12



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US ARMY CORPS
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NEW YORK DISTRICT

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		JE

DATES OF SURVEY:
1:16,23-24,29-31 JAN 2024

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1097

REQ. NO./FILE NO.: 5400/0/N1

APPROVED: P. KEARNS/J. BERTOLOTTI
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIRAZ
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 23 FEBRUARY 2024

DEPARTMENT OF THE ARMY
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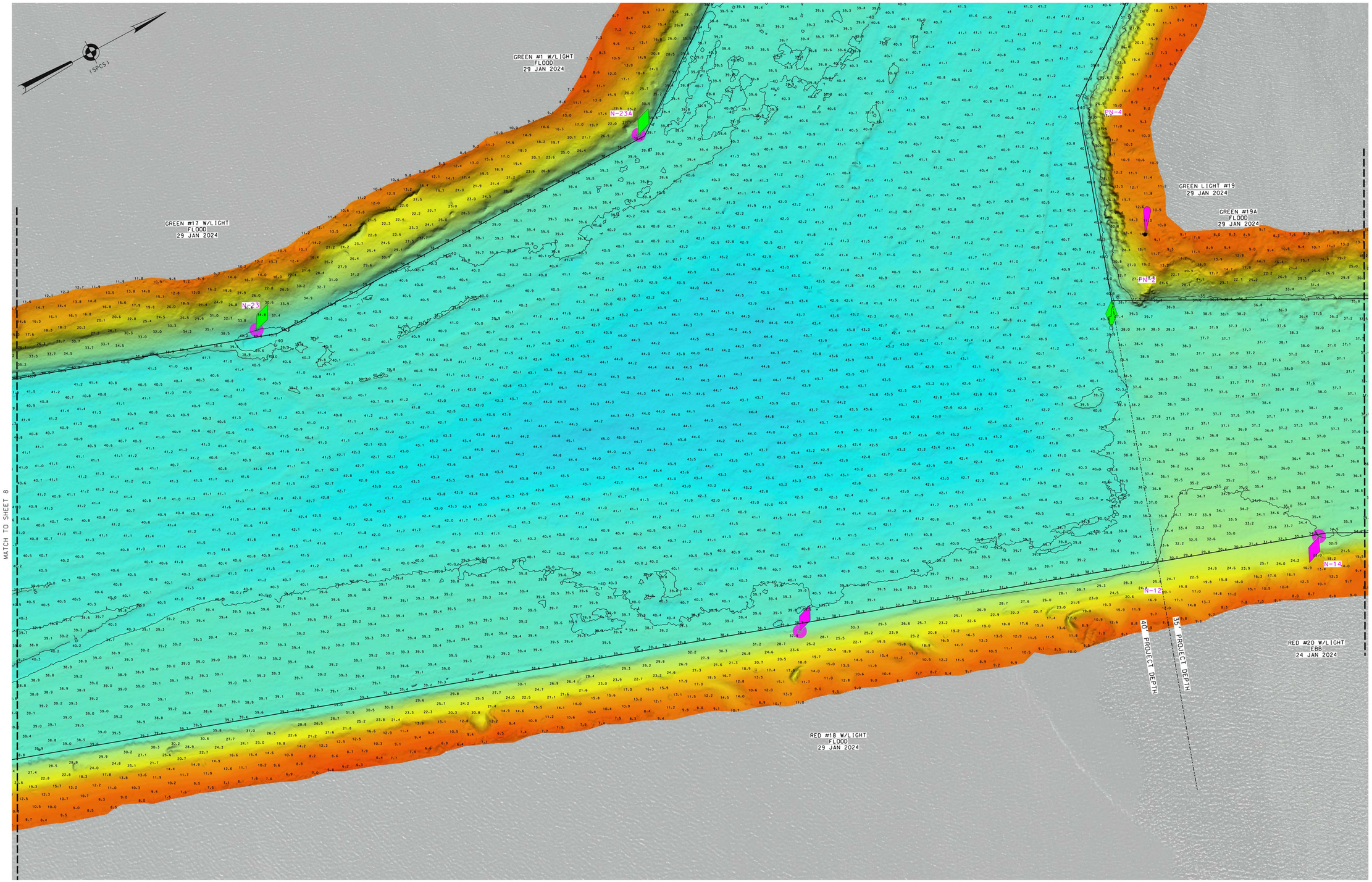
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK, & PASSAIC RIVERS
NEW JERSEY
MAIN CHANNEL
CONDITION SURVEY

VH-108



0 100' 200'

*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	ESO	
MP	JE	

DATES OF SURVEY:
1:16,23-24,29-31 JAN 2024

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1057

REQ. NO./FILE NO.: 5400/0/N1

APPROVED: P. KEARNS/J. BERTOLOTTI
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: MIRAZ
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 23 FEBRUARY 2024

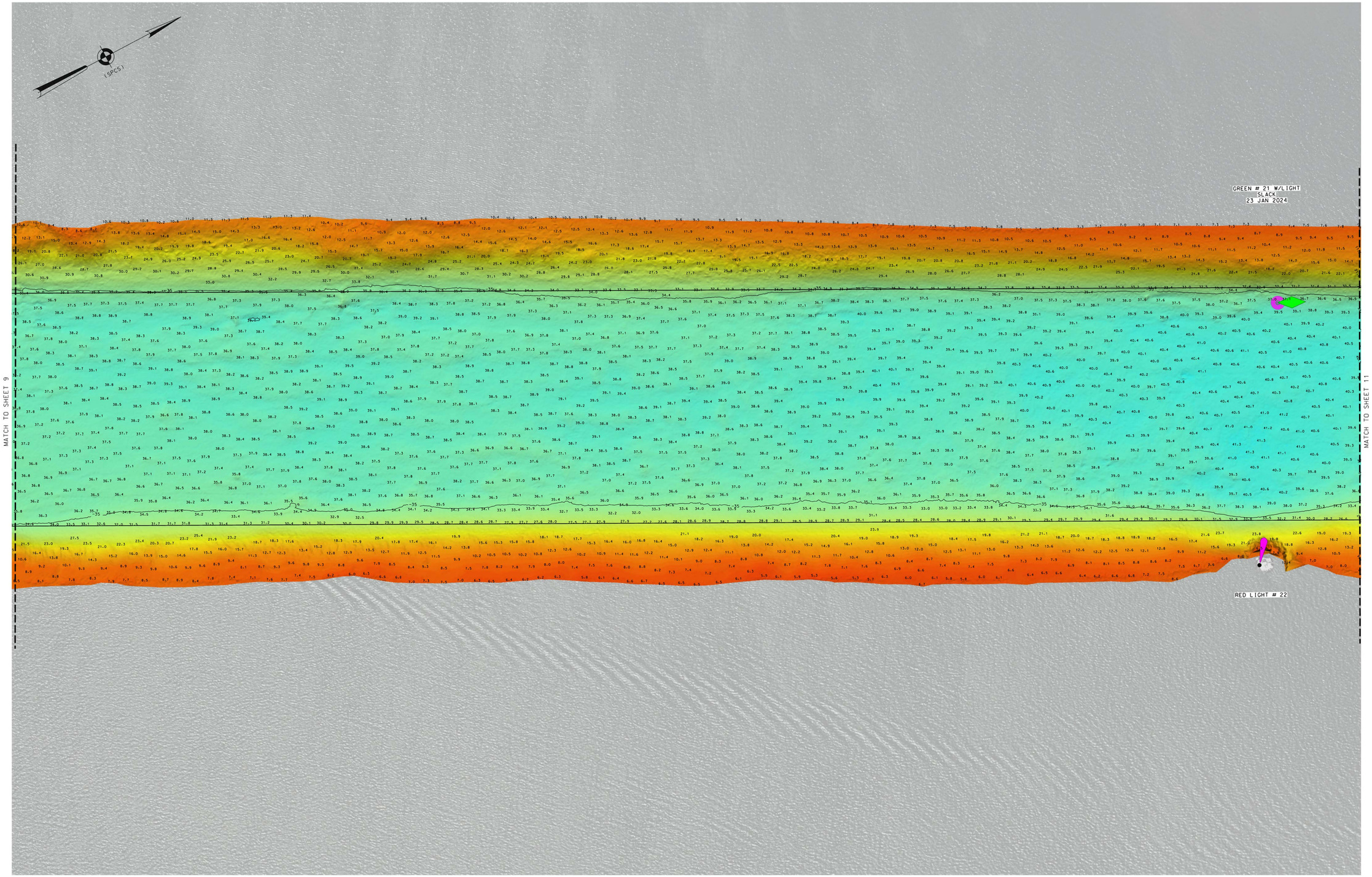
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEWARK BAY, HACKENSACK, & PASSAIC RIVERS
NEW JERSEY
MAIN CHANNEL

VH-109

9 OF 12



0 100' 200'

*FOR PROJECT SPECIFIC NOTES REFER TO SHEET VH-101

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	ESO
	JE

DATES OF SURVEY:
1:16,23-24,29-31 JAN 2024

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1057

REQ. NO./FILE NO.: 5400/0/N1

APPROVED:	P. KEARNS/J. BERTOLOTTI	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	M. MIRAZ	CHIEF OF SURVEYS AND MAPPING BRANCH
DATE:	23 FEBRUARY 2024	

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

NEWARK BAY, HACKENSACK & PASSAIC
RIVERS - NEW JERSEY
MAIN CHANNEL
CONDITION SURVEY

VH-110

10 OF 12

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US ARMY CORPS
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NEW YORK DISTRICT

PR	ESO
MP	JE

DATES OF SURVEY:
1.16,23-24,29-31 JAN 2024

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1097

REQ. NO./FILE NO.: 5400/0/N1

APPROVED: P. KEARNS/J. BERTOLOTTI
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: J. MRAZ
REPORT CHIEF OF SURVEYS AND MAPPING BRANCH

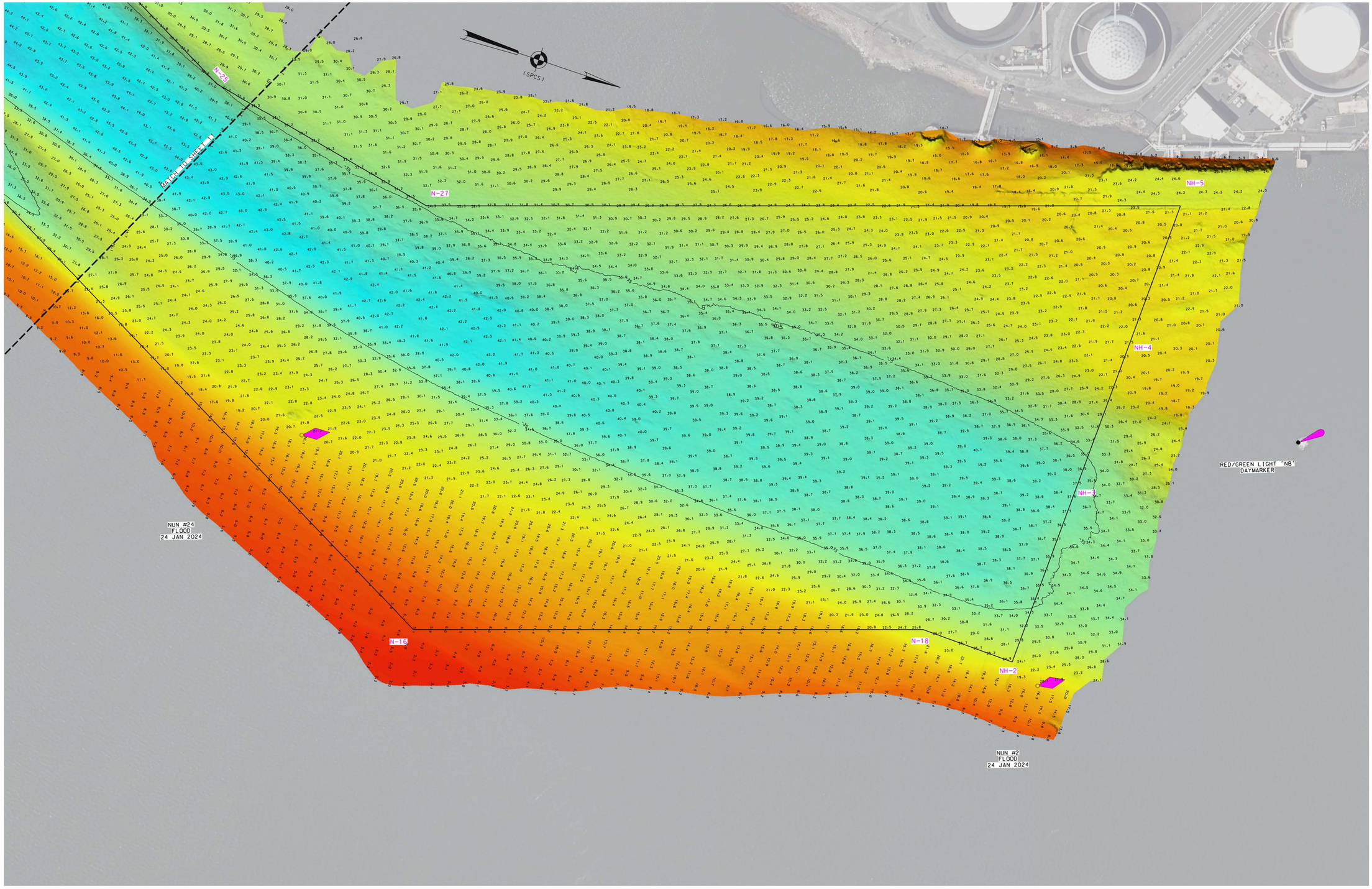
DATE: 23 FEBRUARY 2024

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

NEWARK BAY, HACKENSACK & PASSAIC
RIVERS - NEW JERSEY
MAIN CHANNEL
CONDITION SURVEY

VH-111



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CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: M. MIRAZ
DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 23 FEBRUARY 2024

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CENAN-OP-SS

NEWARK BAY, HACKENSACK & PASSAIC RIVERS - NEW JERSEY

MAIN CHANNEL

CONDITION SURVEY

VH-112

12 OF 12