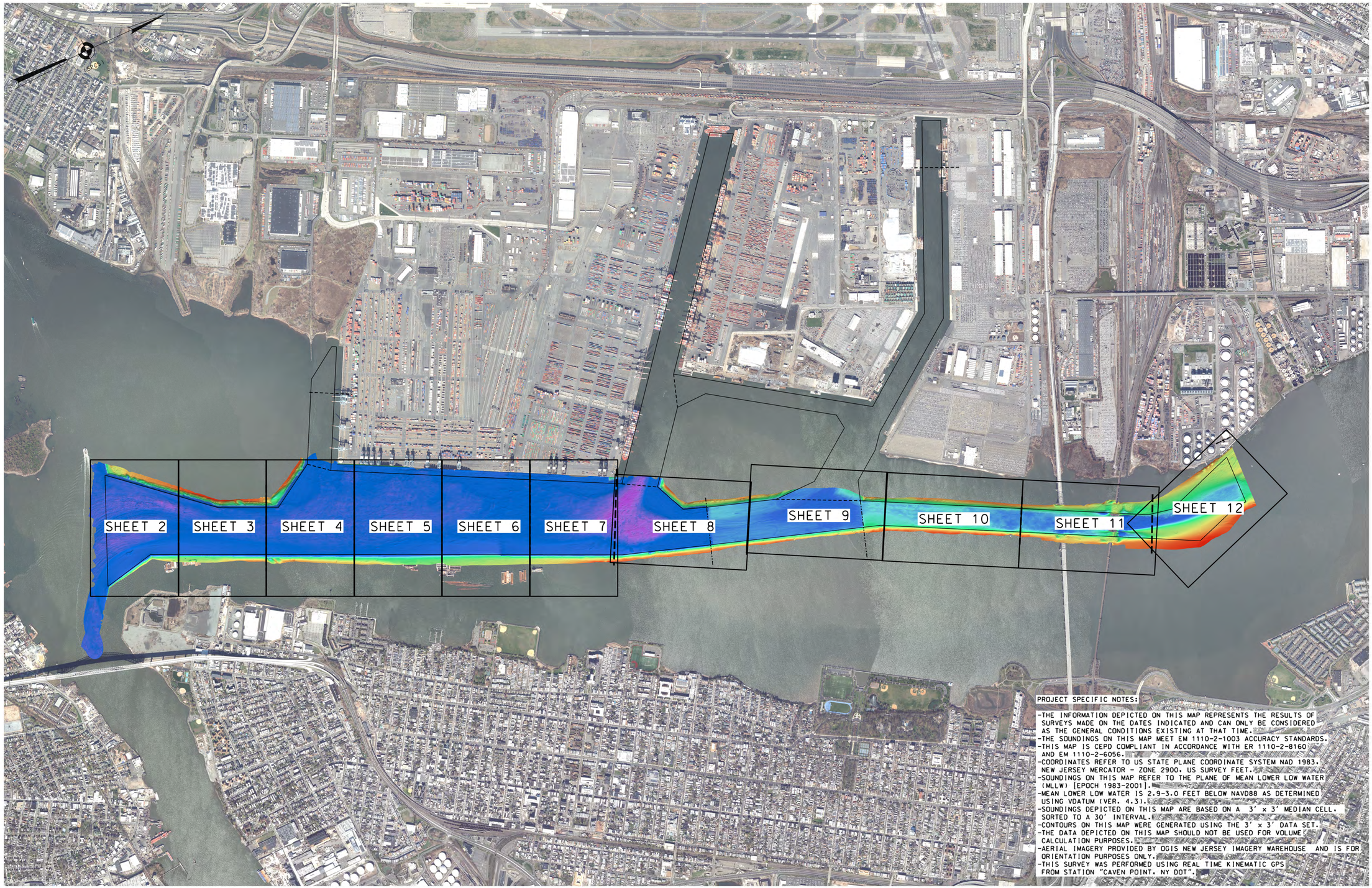


PROJECT SPECIFIC NOTES:

-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 2.9-3.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.3).
-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 STATION "CAVEN POINT, NY DOT".

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

	PR	CF.EO
	MP	CM

DATES OF SURVEY:
27.28.29 JUNE 2023
5.19.20 JULY 2023

SCALE: ONE INCH = 1000 FEET

FIELD BOOKS:
1060

REG. NO./FILE NO.: 5319/0/N3/N1

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH
DATE: 27 JULY 2023

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

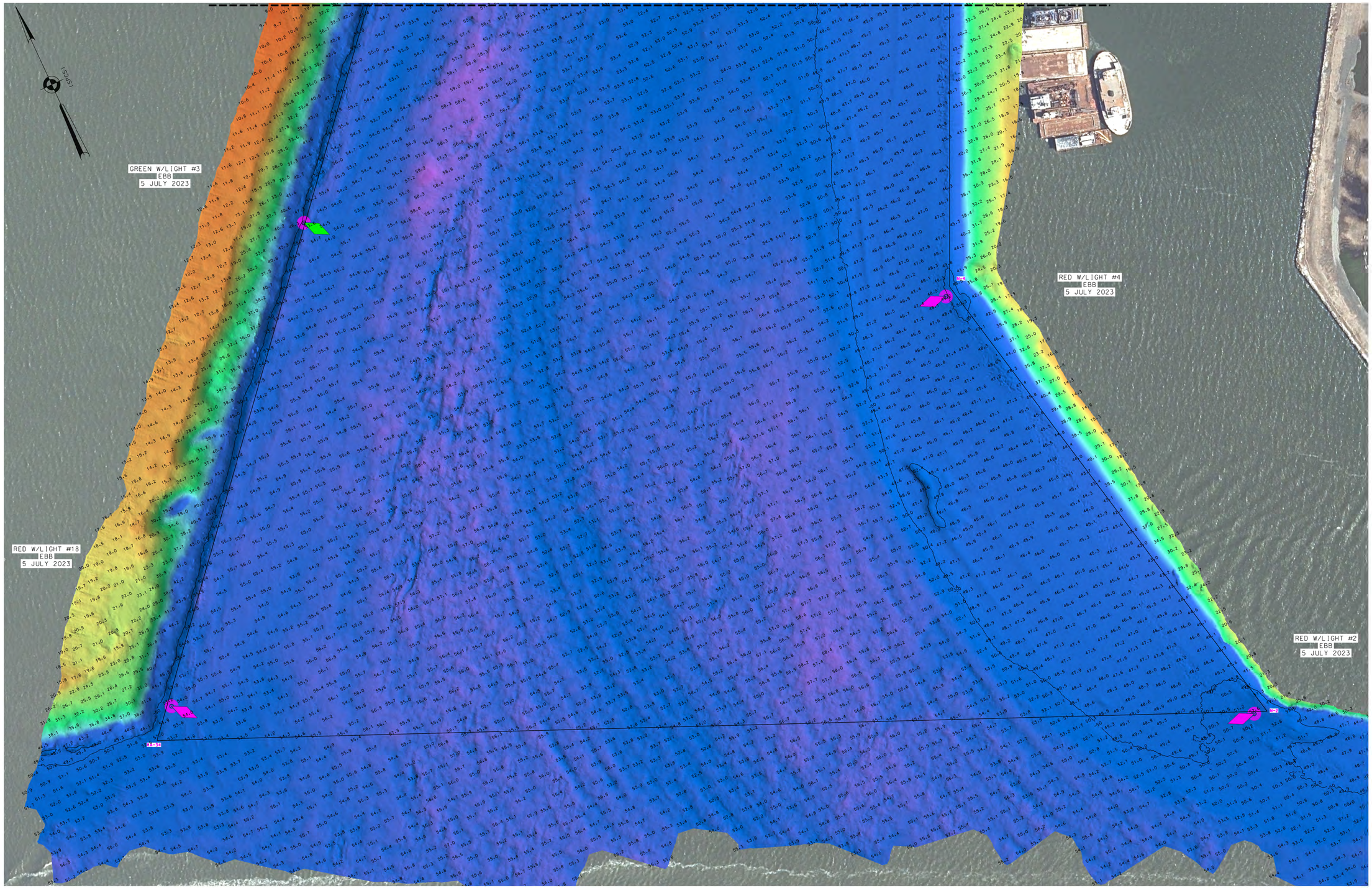
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

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

LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: NBAY 2	BENCHMARK: P 38 (PID:KV0333)
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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	CF,EO
MP	CM

DATES OF SURVEY:
27,28,29 JUNE 2023
5,19,20 JULY 2023

REQ. NO./FILE NO.:5319/D/N3/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1050

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR CHIEF OF SURVEY SUPPORT SECTION
APPROVED: J. MRAZ DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 27 JULY 2023

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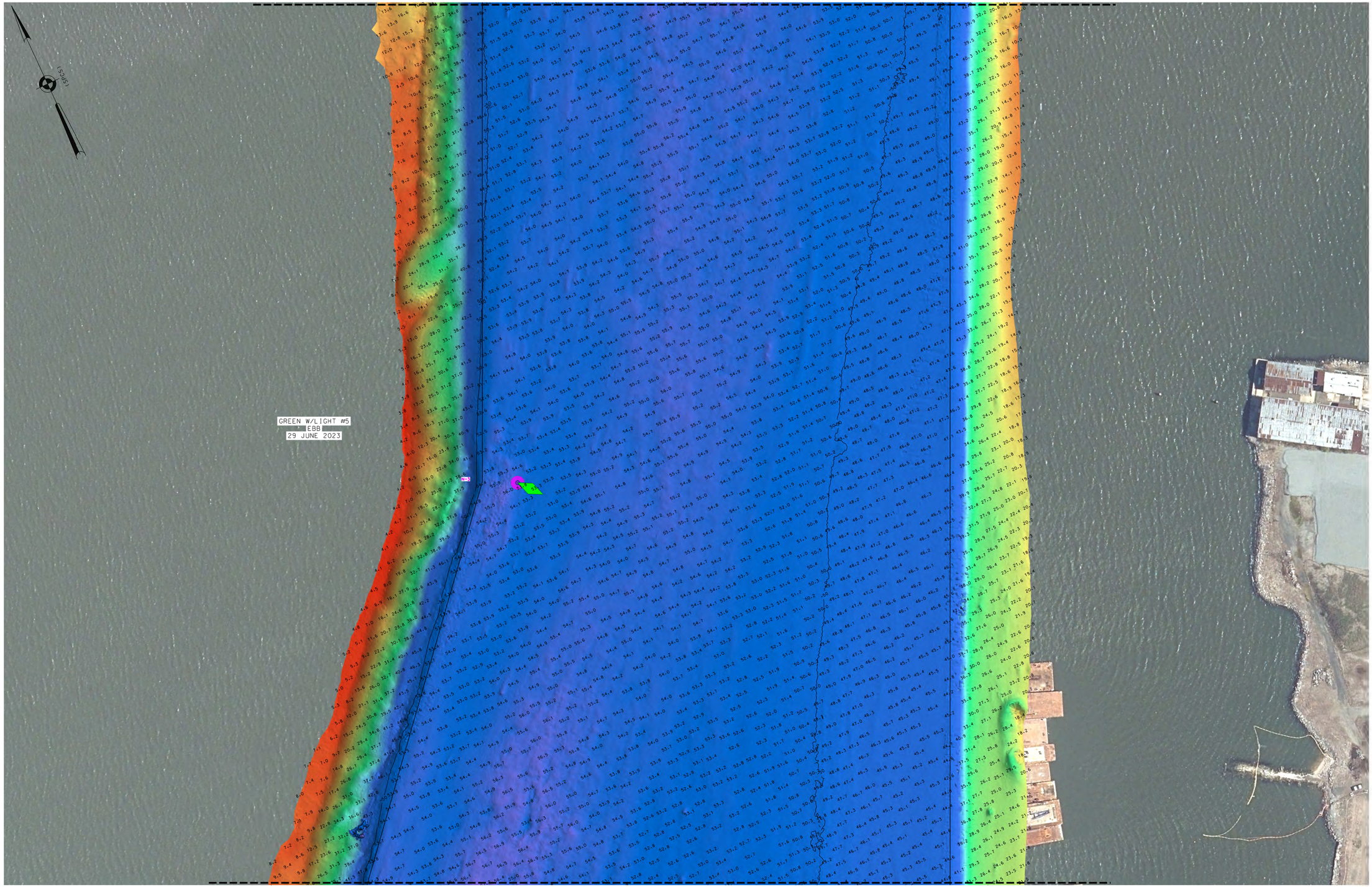
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

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

VH-102

MATCH TO SHEET 4



MATCH TO SHEET 2

0 100' 200'

#FOR PROJECT SPECIFIC NOTES, REFER TO SHEET VH-101

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

PR	CF-EO
WP	CM

DATES OF SURVEY:
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5,19,20 JULY 2023

REQ. NO./FILE NO.: 5319/0/N3/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1060

APPROVED: P. KEARNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE — DEPUTY CHIEF SURVEYS AND MAPPING BRANCH
DATE: 27 JULY 2023

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SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

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

VH-103

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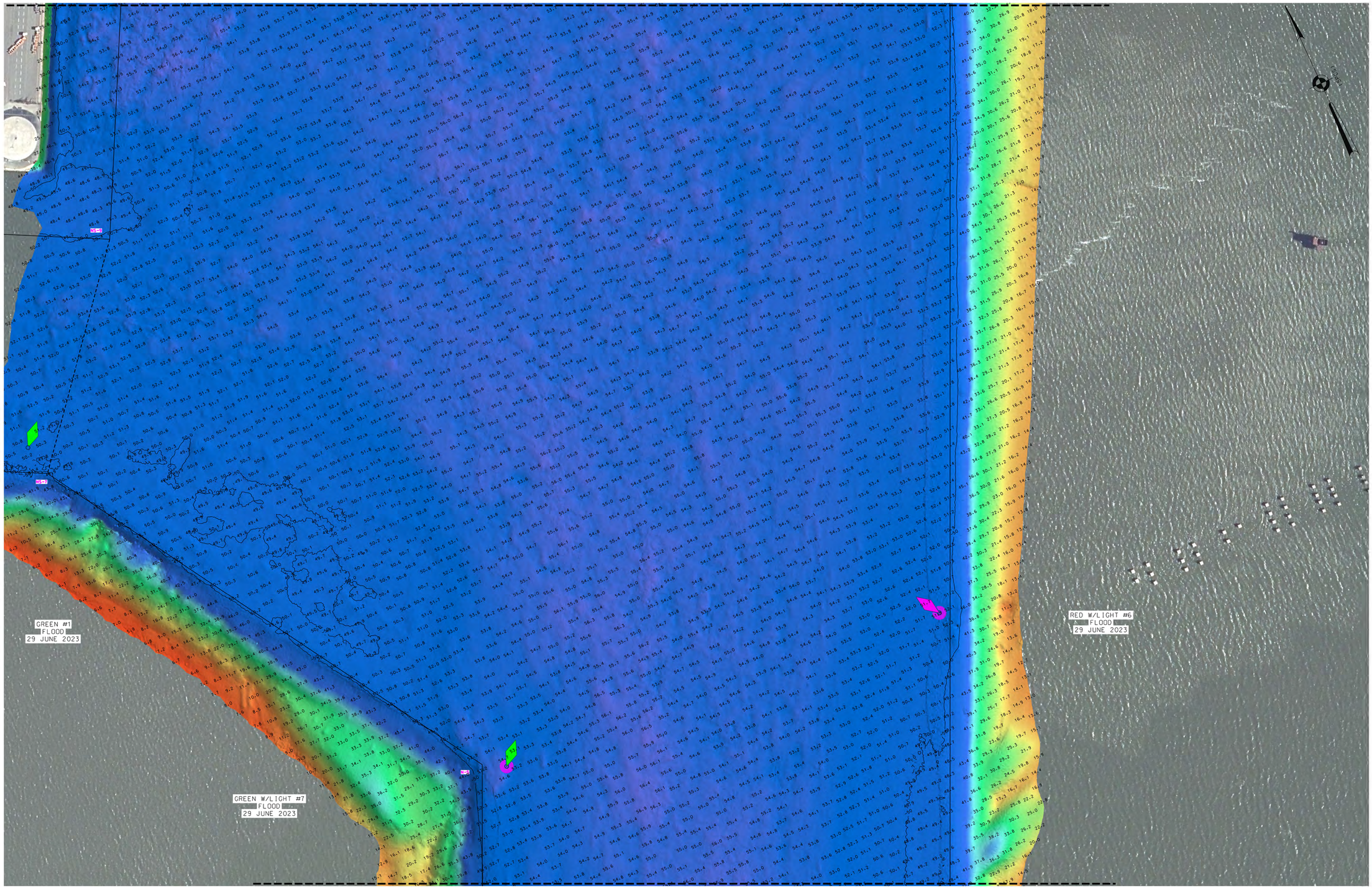
MATCH TO SHEET 5



MATCH TO SHEET 3

0 100' 200'

*FOR PROJECT SPECIFIC NOTES. REFER TO SHEET VH-101

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

PR WP CF.EO CM

DATES OF SURVEY:
27.28.29 JUNE 2023
5.19.20 JULY 2023

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1060

REG. NO./FILE NO.: 5319/0/N3/NY

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE DEPUTY CHIEF SURVEYS AND MAPPING BRANCH
DATE: 27 JULY 2023

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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-104

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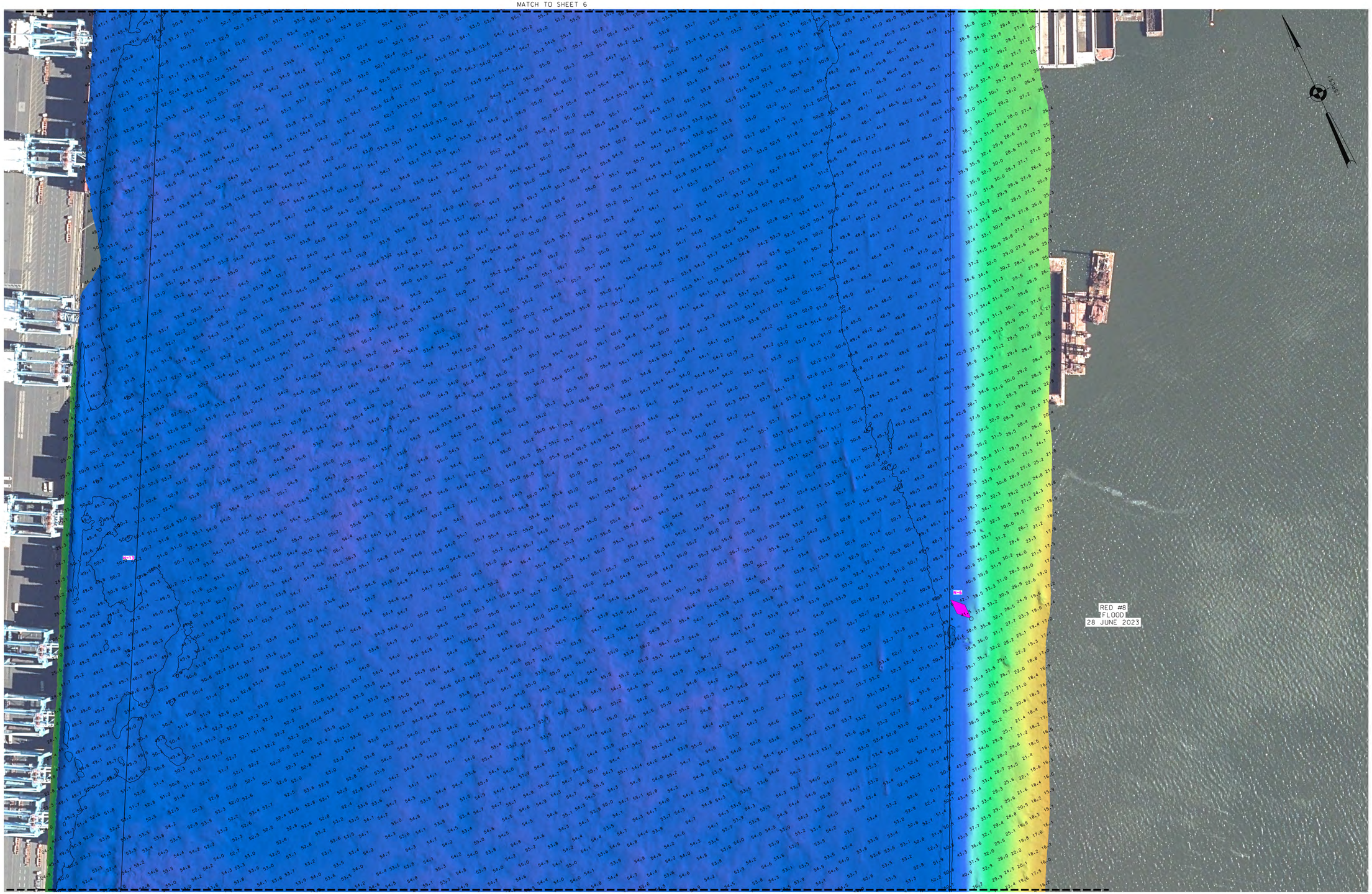
MATCH TO SHEET 6



MATCH TO SHEET 4

0 100' 200'

#FOR PROJECT SPECIFIC NOTES. REFER TO SHEET VH-101

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

PR	CF-EO
WP	CM

DATES OF SURVEY:
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5,19,20 JULY 2023

REQ. NO./FILE NO.: 5319/0/N3/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1060

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 27 JULY 2023

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

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

VH-105

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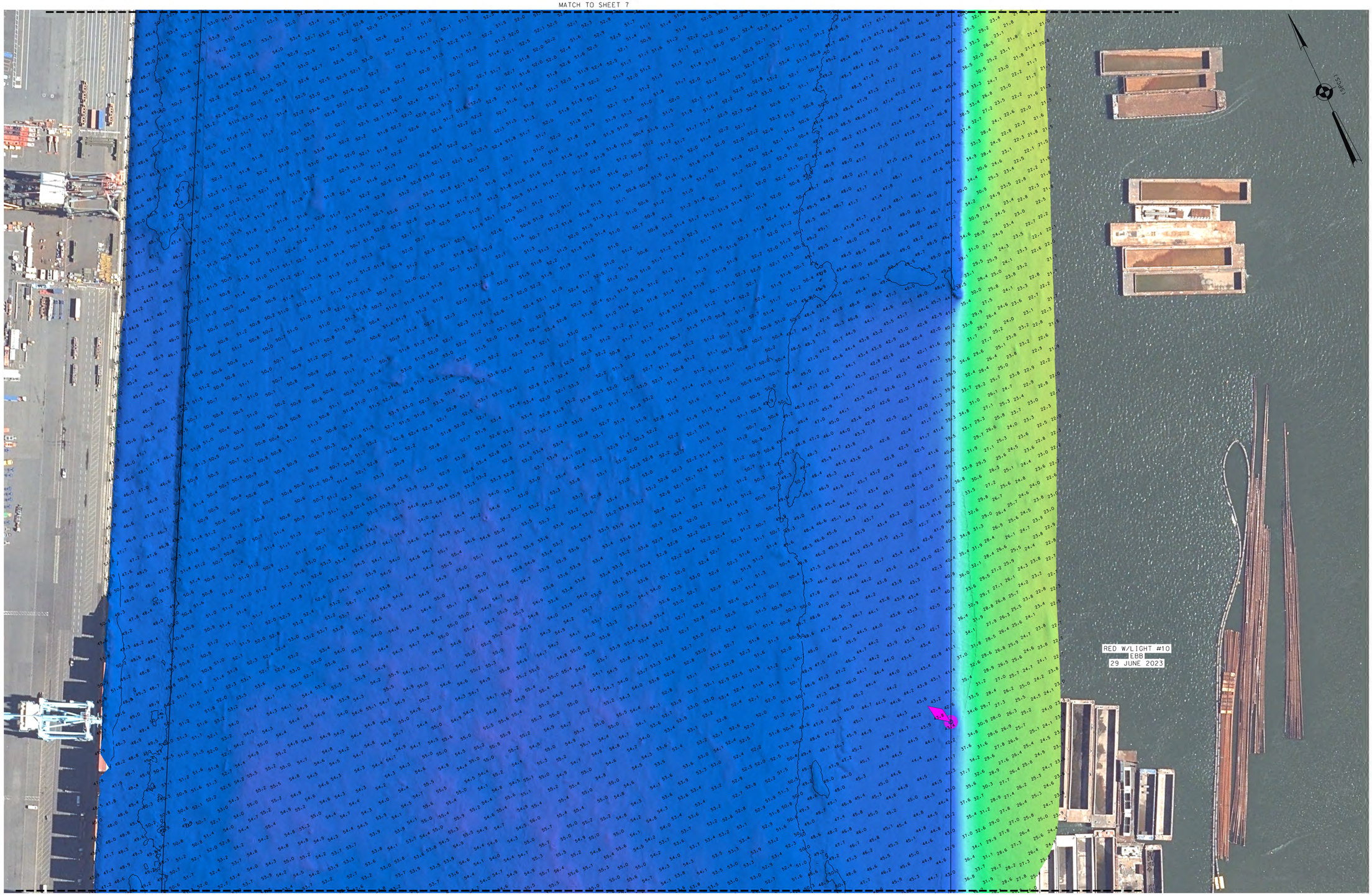
MATCH TO SHEET 7



MATCH TO SHEET 5

0 100' 200'

*FOR PROJECT SPECIFIC NOTES, REFER TO SHEET VH-101

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	CM

DATES OF SURVEY: 27,28,29 JUNE 2023 5,19,20 JULY 2023

REQ. NO./FILE NO.:5319/D/N3/N1

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 1050

APPROVED: P. KEARNS FIELD CARTOGRAPHER

APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR CHIEF OF SURVEY SUPPORT SECTION

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

DATE: 27 JULY 2023

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
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OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

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

VH-106

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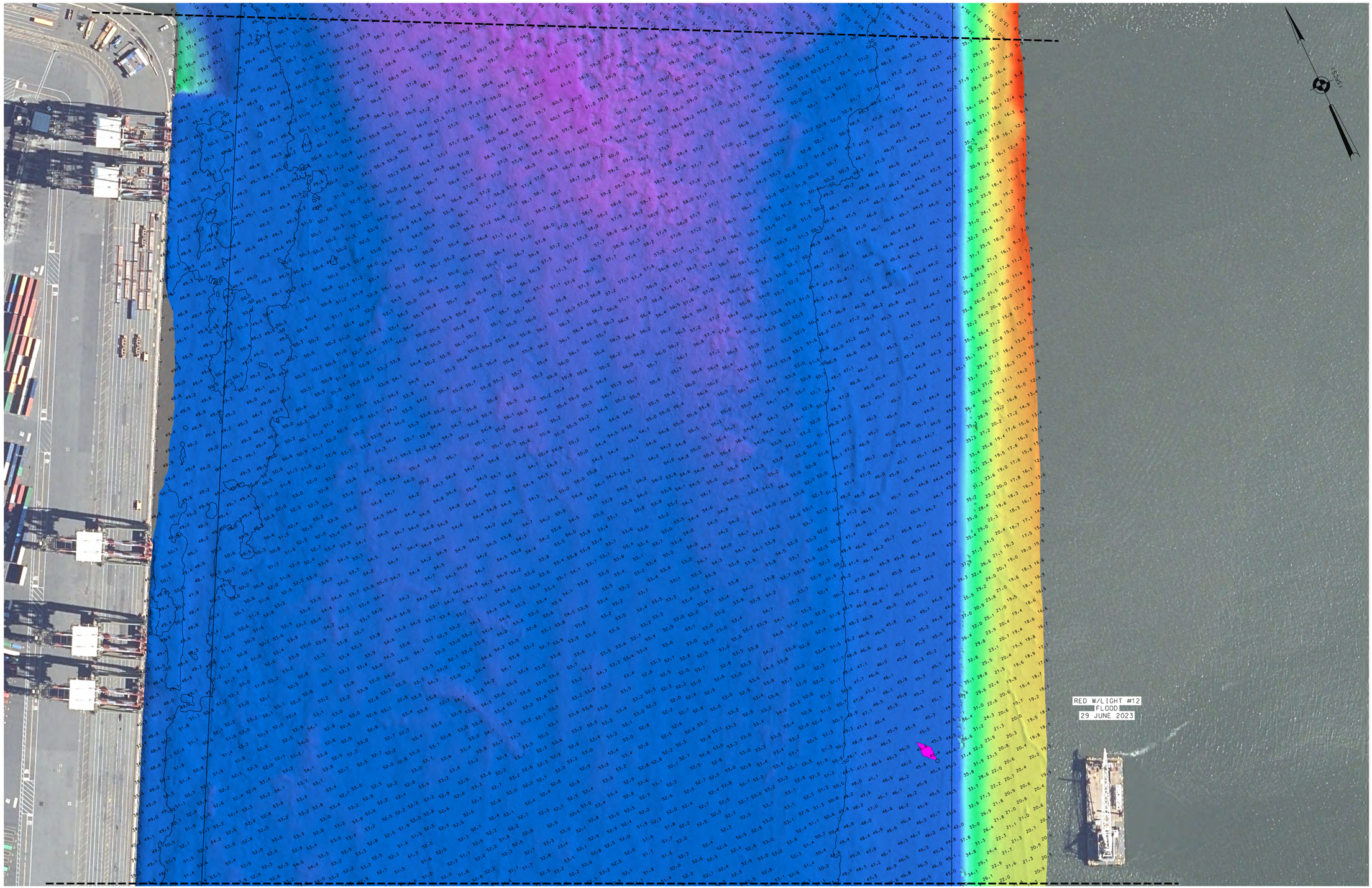
MATCH TO SHEET 8



MATCH TO SHEET 6

0 100' 200'

*FOR PROJECT SPECIFIC NOTES, REFER TO SHEET VH-101

LOCAL CONTROL DATA	NSRS BENCHMARK
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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR: CF.EO
WP: CM

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SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1060

REG. NO./FILE NO.: 5319/0/N3/N1

APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE, DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 27 JULY 2023

DEPARTMENT OF THE ARMY
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SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

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

VH-107

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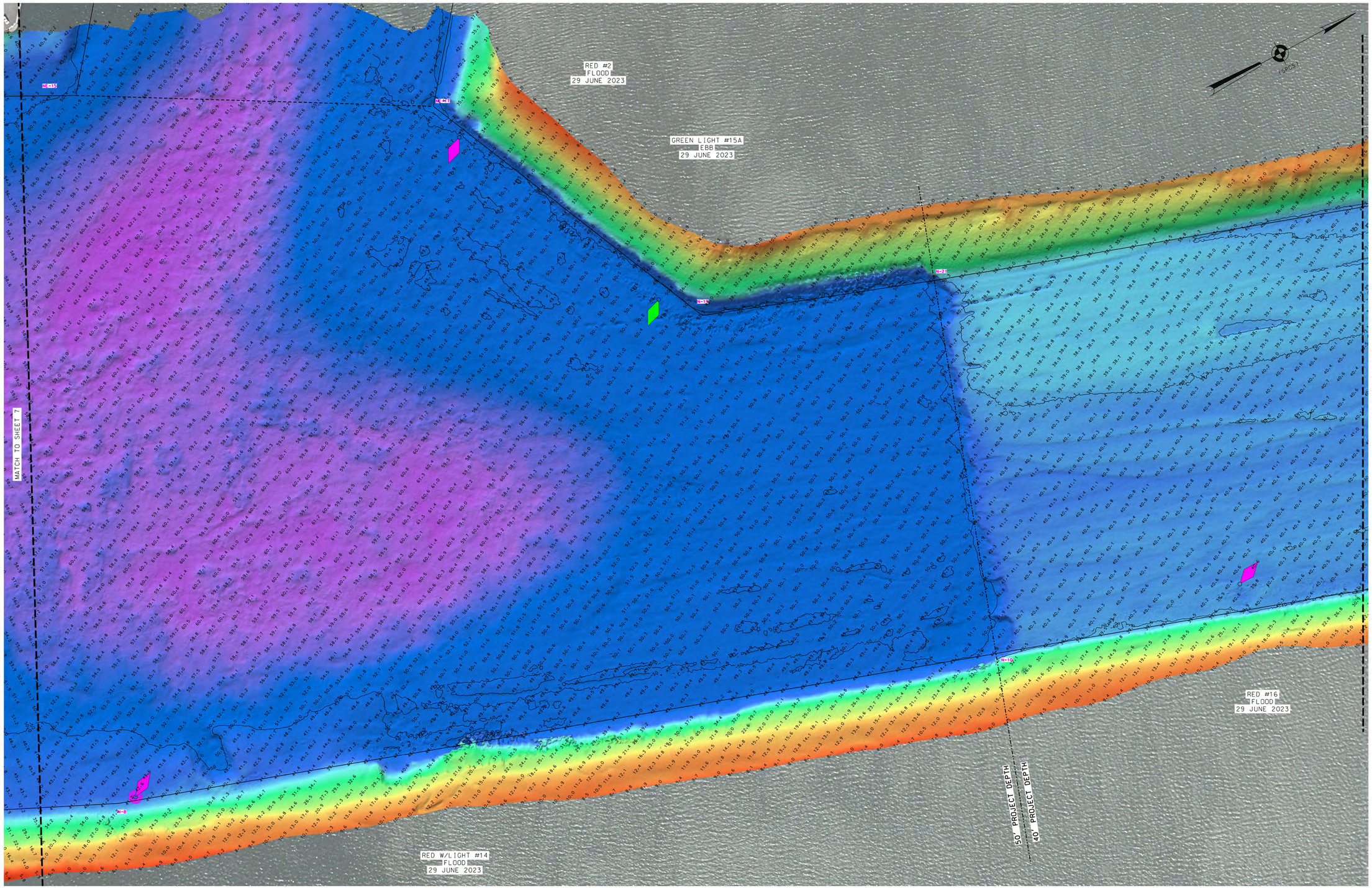

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LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: NBAY 2	BENCHMARK: P 38 (PID:KV0333)
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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

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WP	CM

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1060

REG. NO./FILE NO.: 5319/0/N3/N1

APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: GREG [illegible], DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH
DATE: 27 JULY 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

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

VH-108

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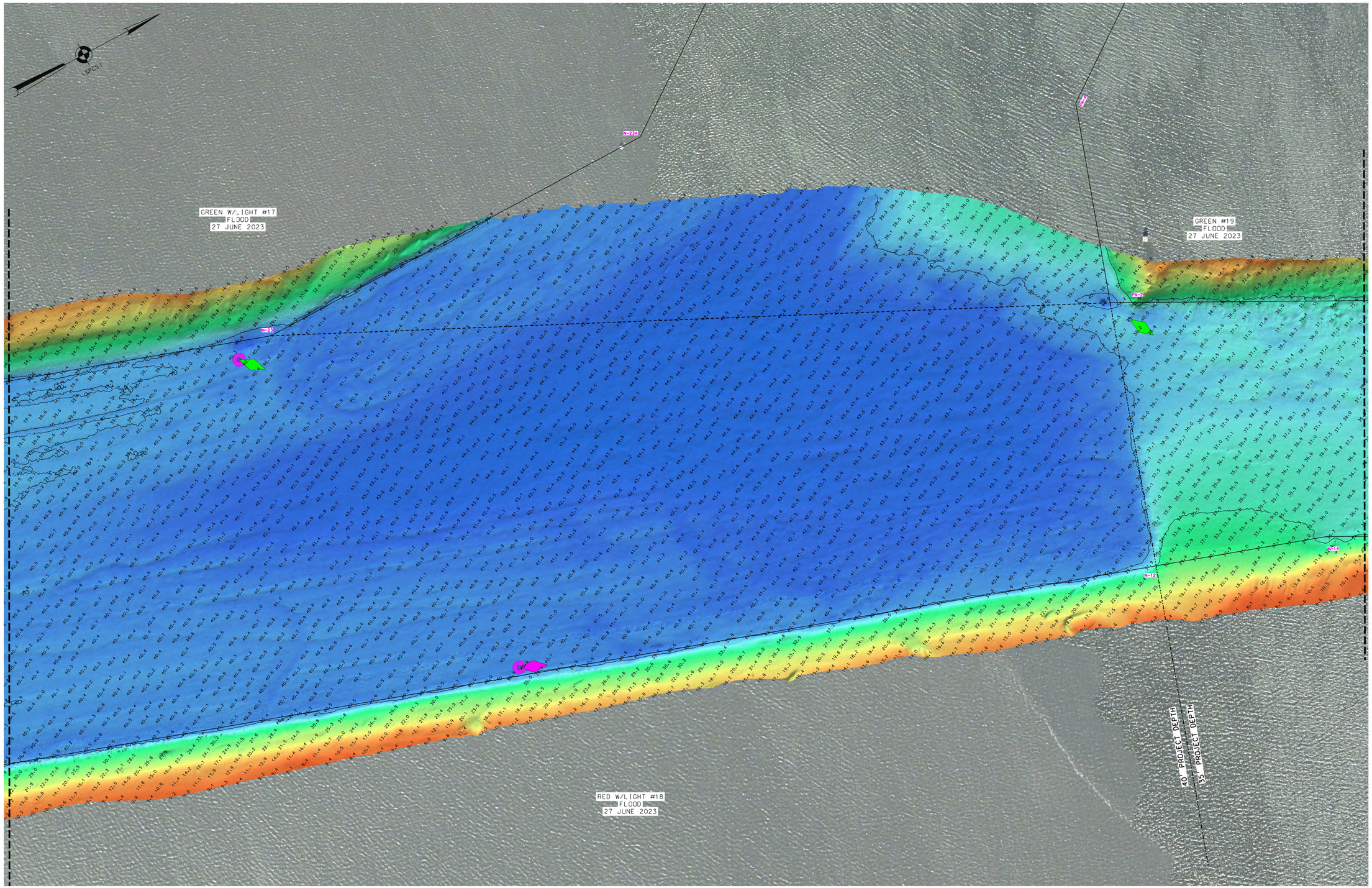

*FOR PROJECT SPECIFIC NOTES, REFER TO SHEET VH-101

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

PR	CF-EO
WP	CM

DATES OF SURVEY:
27-28-29 JUNE 2023
5-19-20 JULY 2023

REG. NO./FILE NO.: 5319/0/N3/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1060

APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE, DEPUTY CHIEF, SURVEYS AND MAPPING BRANCH
DATE: 27 JULY 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

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

VH-109

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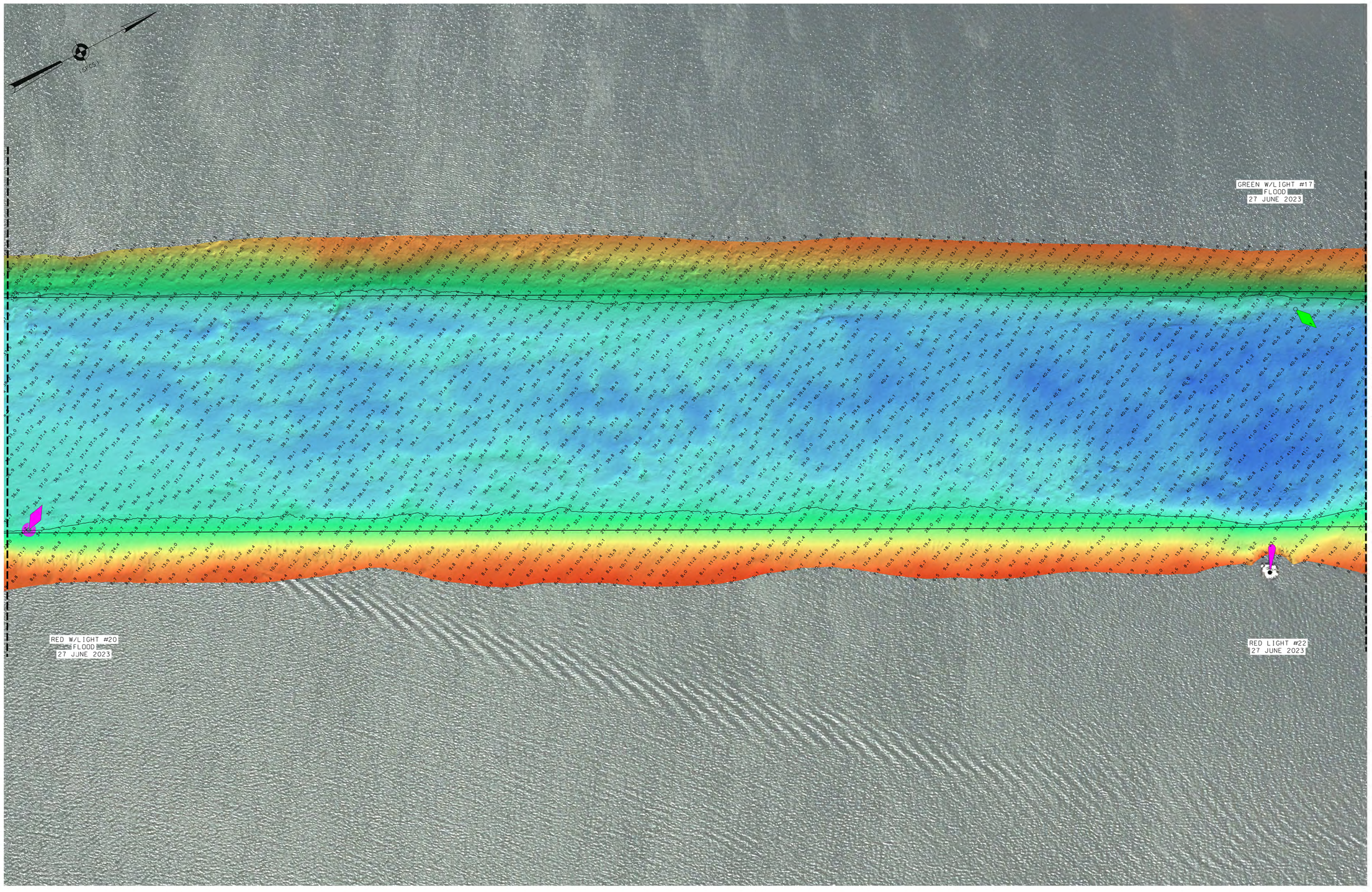

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LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: NBAY 2	BENCHMARK: P 38 (PID:KV0333)
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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

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DATES OF SURVEY:
27,28,29 JUNE 2023
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REQ. NO./FILE NO.:5319/D/N3/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1050

APPROVED: P. KEARNS FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR CHIEF OF SURVEY SUPPORT SECTION
APPROVED: J. MRAZ DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 27 JULY 2023

DEPARTMENT OF THE ARMY
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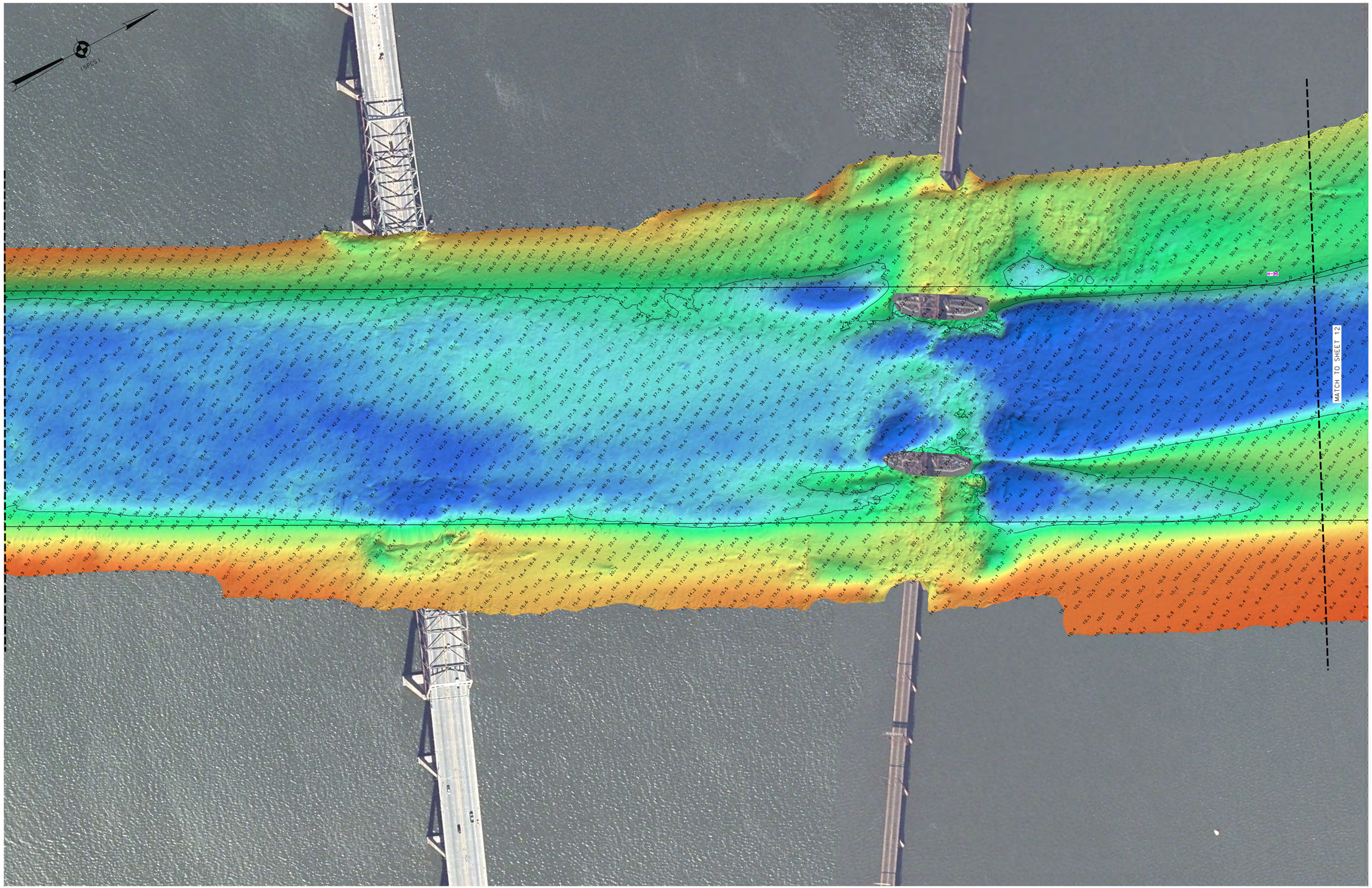
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

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

VH-110



0 100' 200'

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LOCAL CONTROL DATA	NSRS BENCHMARK
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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

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1060

REG. NO./FILE NO.: 5319/0/N3/N1

APPROVED: P. KEARNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CHIEF OF SURVEY SUPPORT SECTION
APPROVED: MIKE — DEPUTY CHIEF, GRAPHICS AND MAPPING BRANCH
DATE: 27 JULY 2023

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-111
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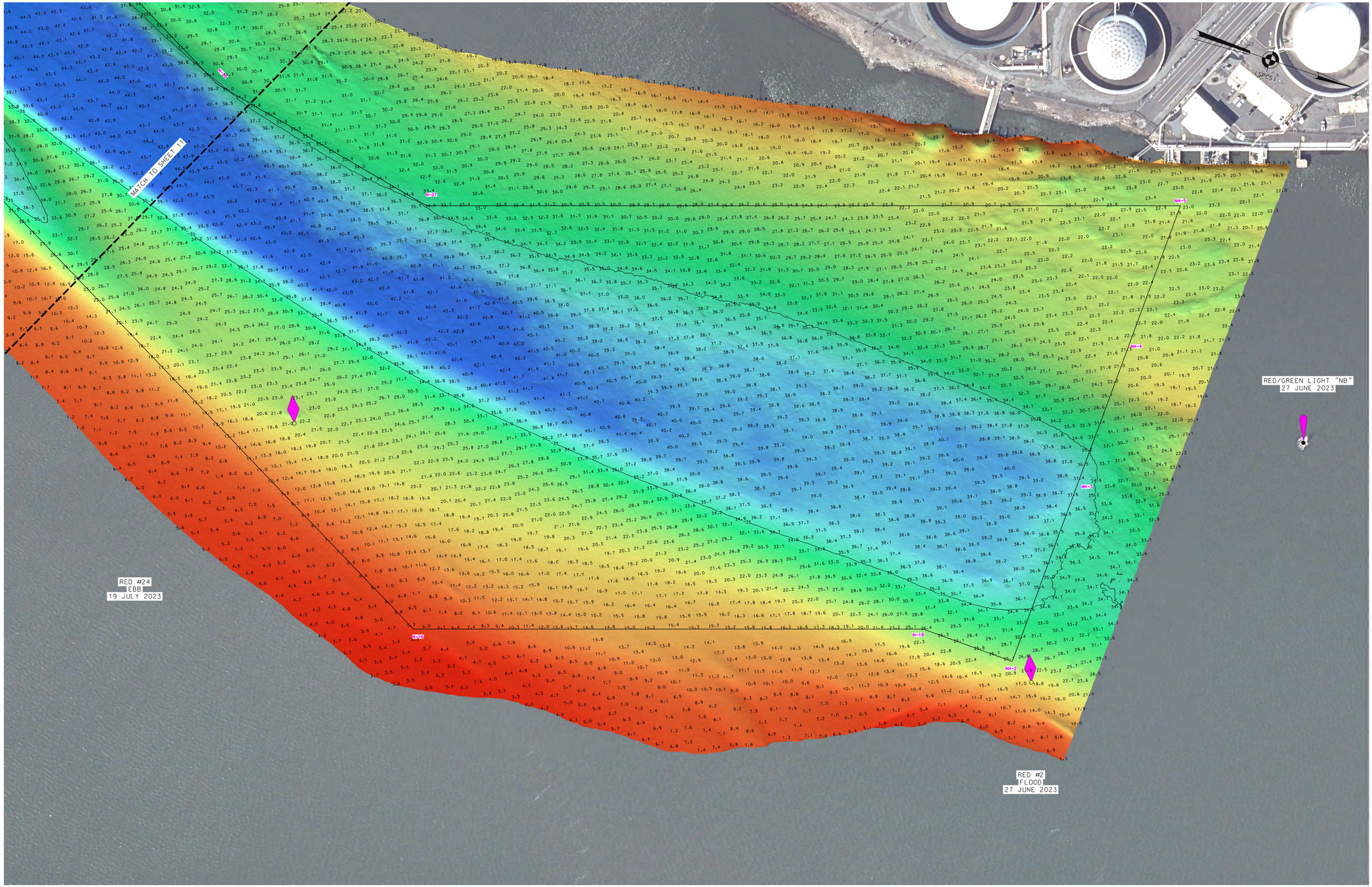

0 100' 200'

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LOCAL CONTROL DATA	NSRS BENCHMARK
BENCHMARK: NBAY 2	BENCHMARK: P 38 (PID:KV0333)
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US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

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APPROVED: J. MRAZ DEPUTY CHIEF OF SURVEYS AND MAPPING BRANCH
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CENAN-OP-SS

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

VH-112