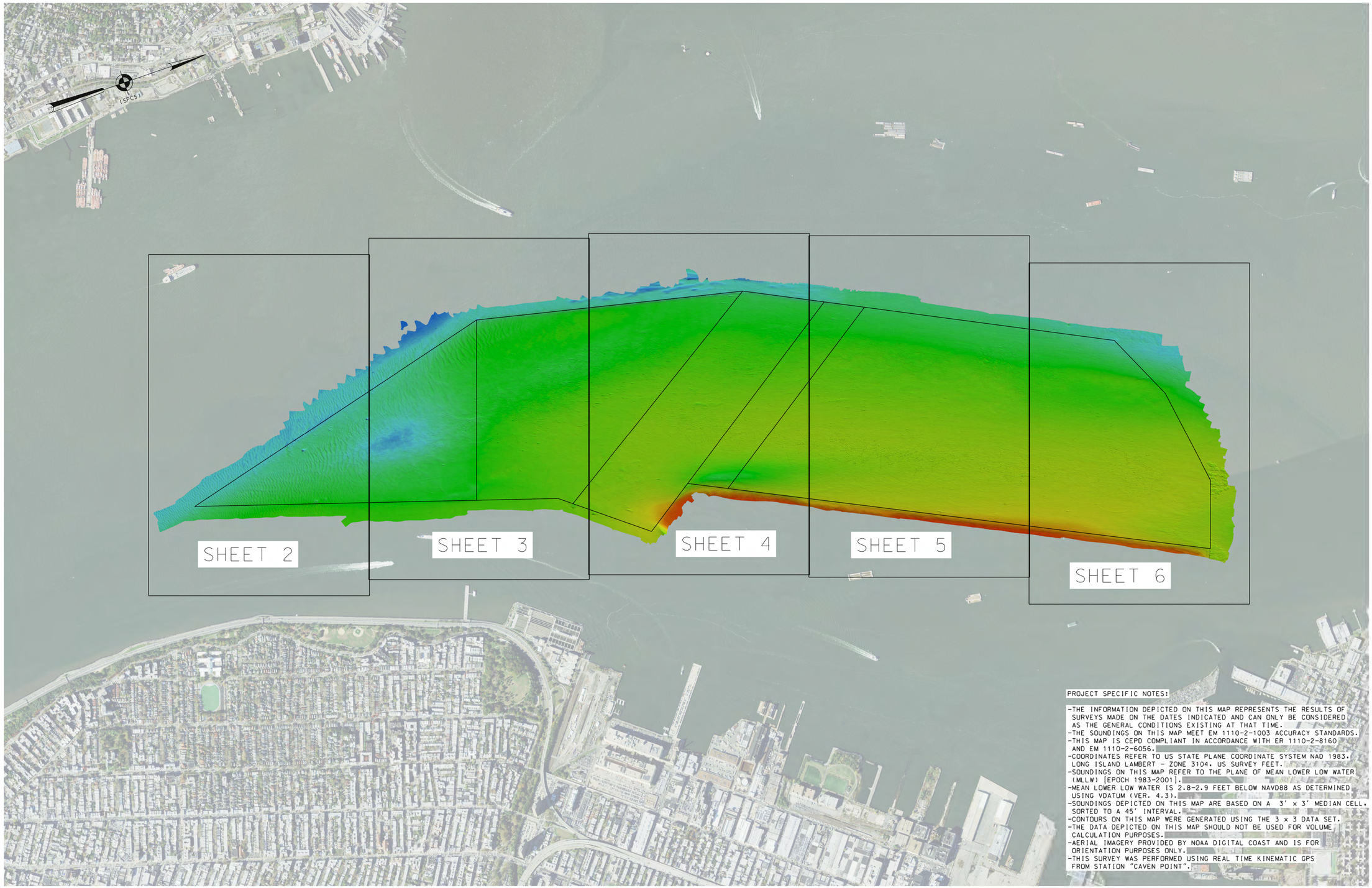

PROJECT SPECIFIC NOTES:

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-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, LONG ISLAND LAMBERT - ZONE 3104, 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 2.8-2.9 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 45' 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 NOAA DIGITAL COAST AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT".

0 800' 1600'

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: P 342 (KV0561)	BENCHMARK: PK PIER 4 NORTH
ELEVATION: 38.36' (NAVD 1988)	ELEVATION: 6.03' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR
MP
JDS.COM

DATES OF SURVEY:
29 DECEMBER 2022
10, 11, 17, 18 JANUARY 2023
19, 23, 24 JANUARY 2023

REQ. NO./FILE NO.:5254/N1

SCALE:
ONE INCH = 800 FEET

FIELD BOOKS:
1022

APPROVED: P. KEARNS
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF OF SURVEY SUPPORT SECTION

APPROVED: M. MRAZ
CHIEF OF SURVEYS AND MAPPING BRANCH

DATE: 30 JANUARY 2023

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

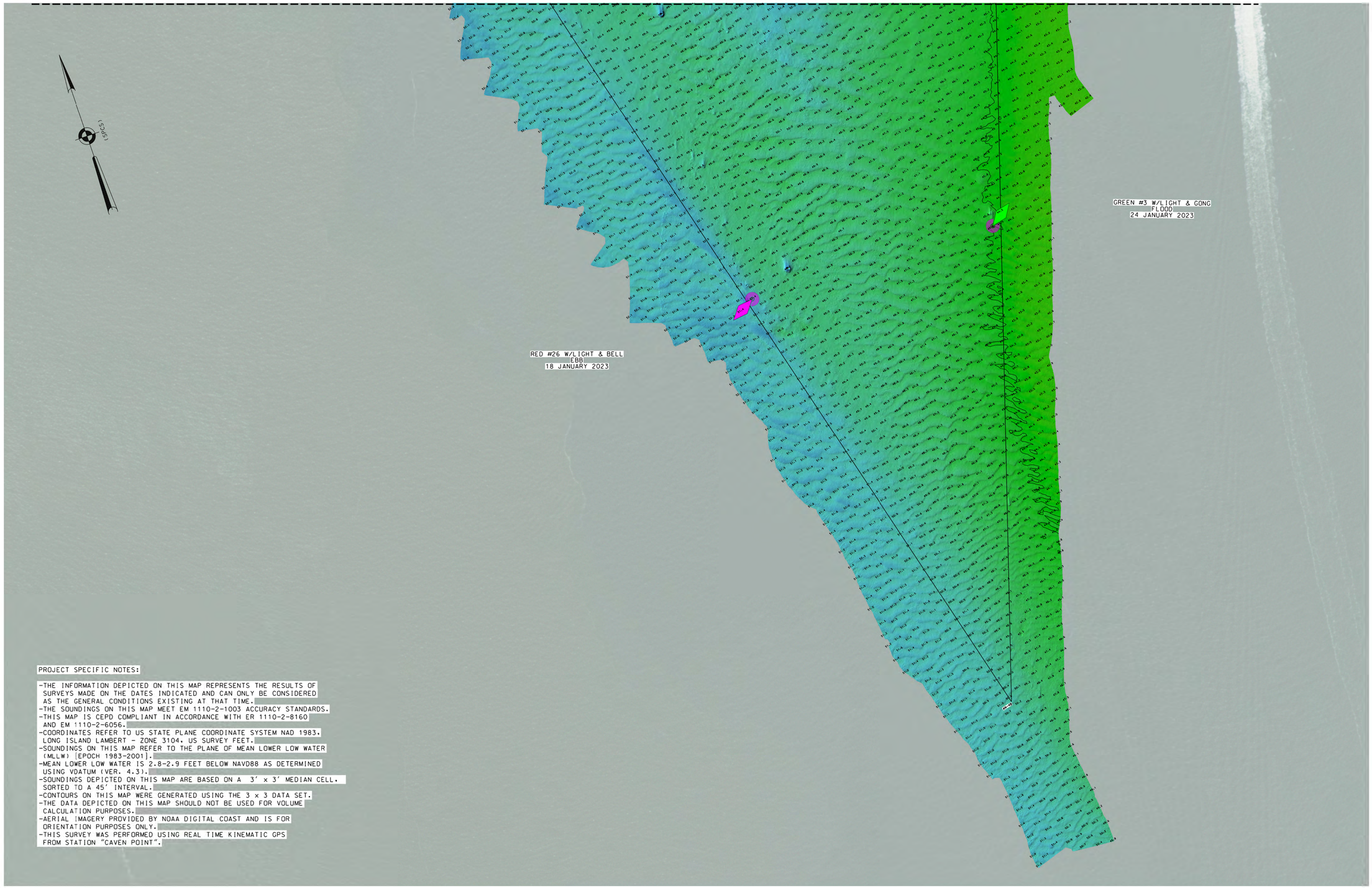
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-S

NEW YORK HARBOR
RED HOOK FLATS ANCHORAGE
NEW JERSEY
PLANS AND SPECS SURVEY

VH-101

1 OF 6

MATCH TO SHEET 3



PROJECT SPECIFIC NOTES:

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- COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983, LONG ISLAND LAMBERT - ZONE 3104, US SURVEY FEET.
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- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT".

0 200'

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: P 342 (KV0561)	BENCHMARK: PK PIER 4 NORTH
ELEVATION: 38.36' (NAVD 1988)	ELEVATION: 6.03' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	03-DECEMBER-2023
MP	JDS.GM

DATES OF SURVEY:
29 DECEMBER 2022
10, 11,17,18 JANUARY 2023
19,24,29 JANUARY 2023

REQ. NO./FILE NO.:5254/N1

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1022

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: 30 JANUARY 2023

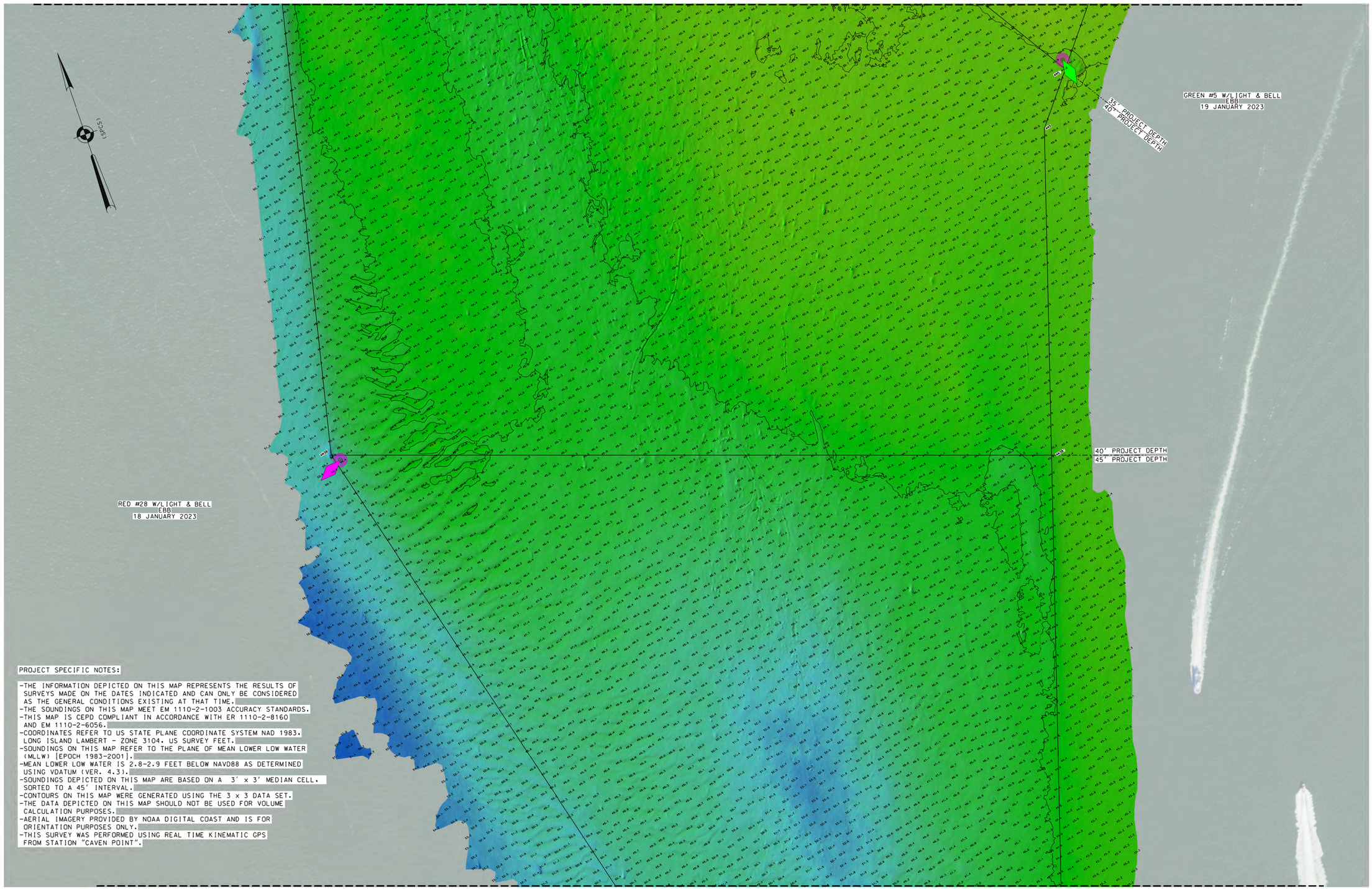
DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-S

NEW YORK HARBOR
RED HOOK FLATS ANCHORAGE
NEW JERSEY
PLANS AND SPECS SURVEY

VH-102

MATCH TO SHEET 4



PROJECT SPECIFIC NOTES:

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0 200' 400'

MATCH TO SHEET 2

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: P 342 (KV0561)	BENCHMARK: PK PIER 4 NORTH
ELEVATION: 38.36' (NAVD 1988)	ELEVATION: 6.03' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	CB-DLGIS-ES-PLANS.DGN
	MP	JDS.COM

DATES OF SURVEY:
23 DECEMBER 2022
10, 11, 17, 18 JANUARY 2023
19, 23, 24 JANUARY 2023

REG. NO./FILE NO.:15254/N1

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1022

APPROVED: P. KEARNS, FIELD CARTOGRAPHER
APPROVED: M. FORTE, CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF OF SURVEY SUPPORT SECTION
APPROVED: M. MRAZ, CHIEF OF SURVEYS AND MAPPING BRANCH
DATE: 30 JANUARY 2023

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

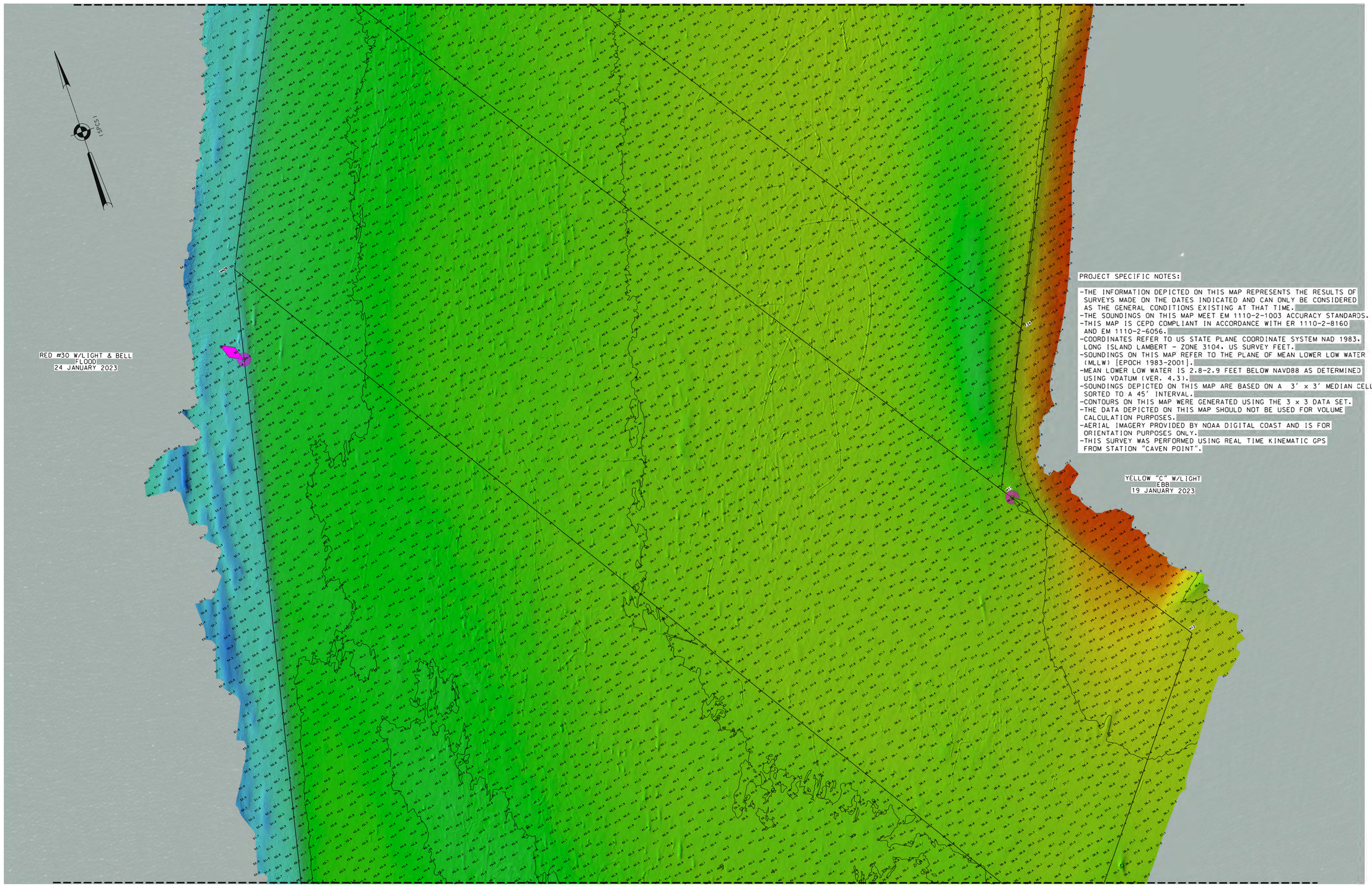
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-S

NEW YORK HARBOR
RED HOOK FLATS ANCHORAGE
NEW JERSEY
PLANS AND SPECS SURVEY

VH-103

3 OF 6

MATCH TO SHEET 5



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MATCH TO SHEET 3

0 200' 400'

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: P 342 (KV0561)	BENCHMARK: PK PIER 4 NORTH
ELEVATION: 38.36' (NAVD 1988)	ELEVATION: 6.03' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:	23 DECEMBER 2022 10, 11, 17, 18 JANUARY 2023 19, 24, 25 JANUARY 2023
SCALE:	ONE INCH = 200 FEET
FIELD BOOKS:	1022
REG. NO./FILE NO.:	15254/N1

APPROVED:	P. KEARNS	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	CHIEF OF SURVEY SUPPORT SECTION
APPROVED:	M. MRAZ	CHIEF OF SURVEYS AND MAPPING BRANCH
DATE:	30 JANUARY 2023	

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

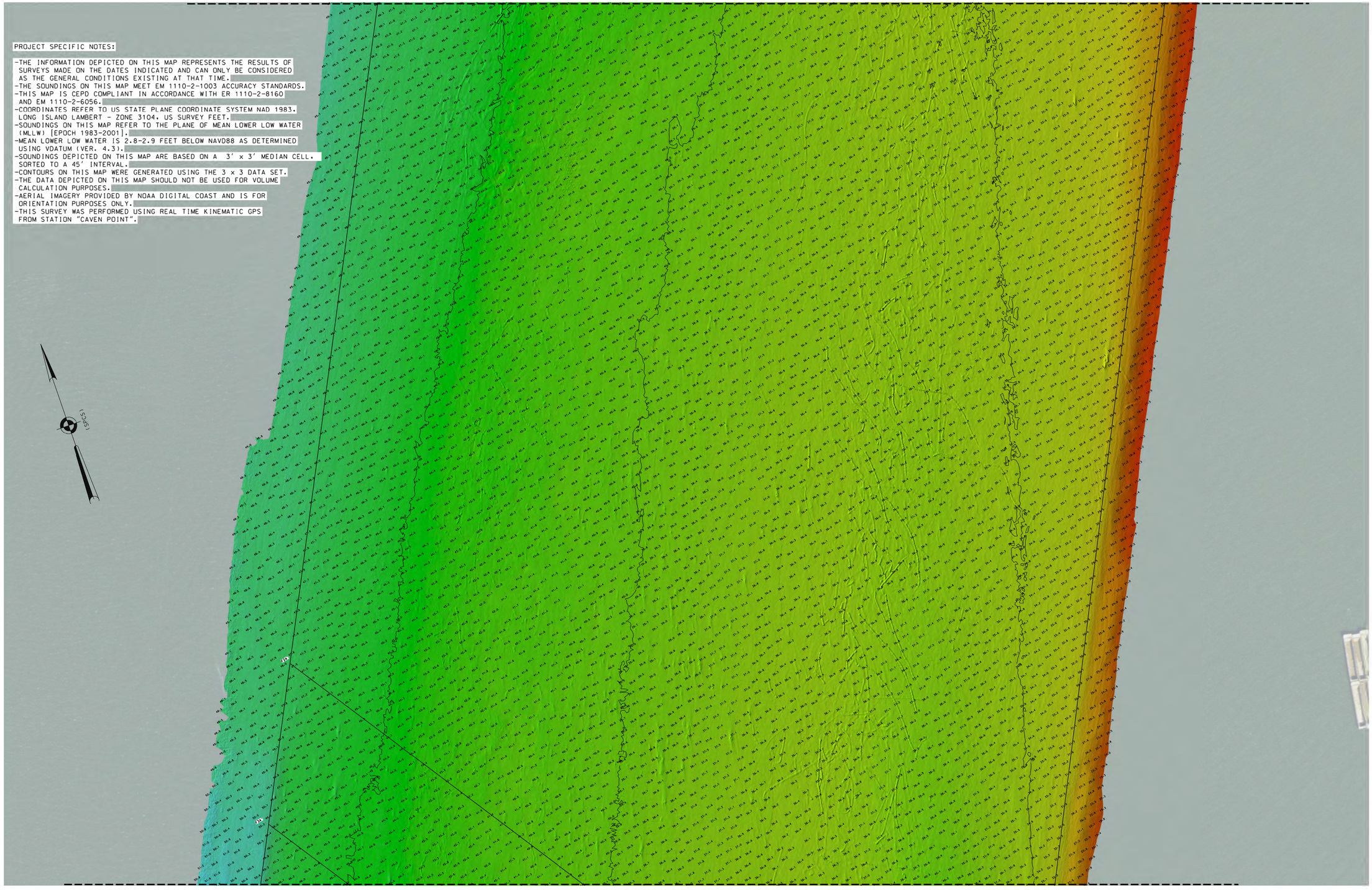
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-S

NEW YORK HARBOR
RED HOOK FLATS ANCHORAGE
NEW JERSEY
PLANS AND SPECS SURVEY

VH-104

4 OF 6

MATCH TO SHEET 6



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MATCH TO SHEET 4

0 200' 400'

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: P 342 (KV0561)	BENCHMARK: PK PIER 4 NORTH
ELEVATION: 38.36' (NAVD 1988)	ELEVATION: 6.03' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	09-30-2023	JDS.GM
MP		

DATES OF SURVEY:
29 DECEMBER 2022
10, 11,17,18 JANUARY 2023
19,24,29 JANUARY 2023

REQ. NO./FILE NO.:5254/N1

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1022

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: 30 JANUARY 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-S

NEW YORK HARBOR
RED HOOK FLATS ANCHORAGE
NEW JERSEY
PLANS AND SPECS SURVEY

VH-105

PROJECT SPECIFIC NOTES:

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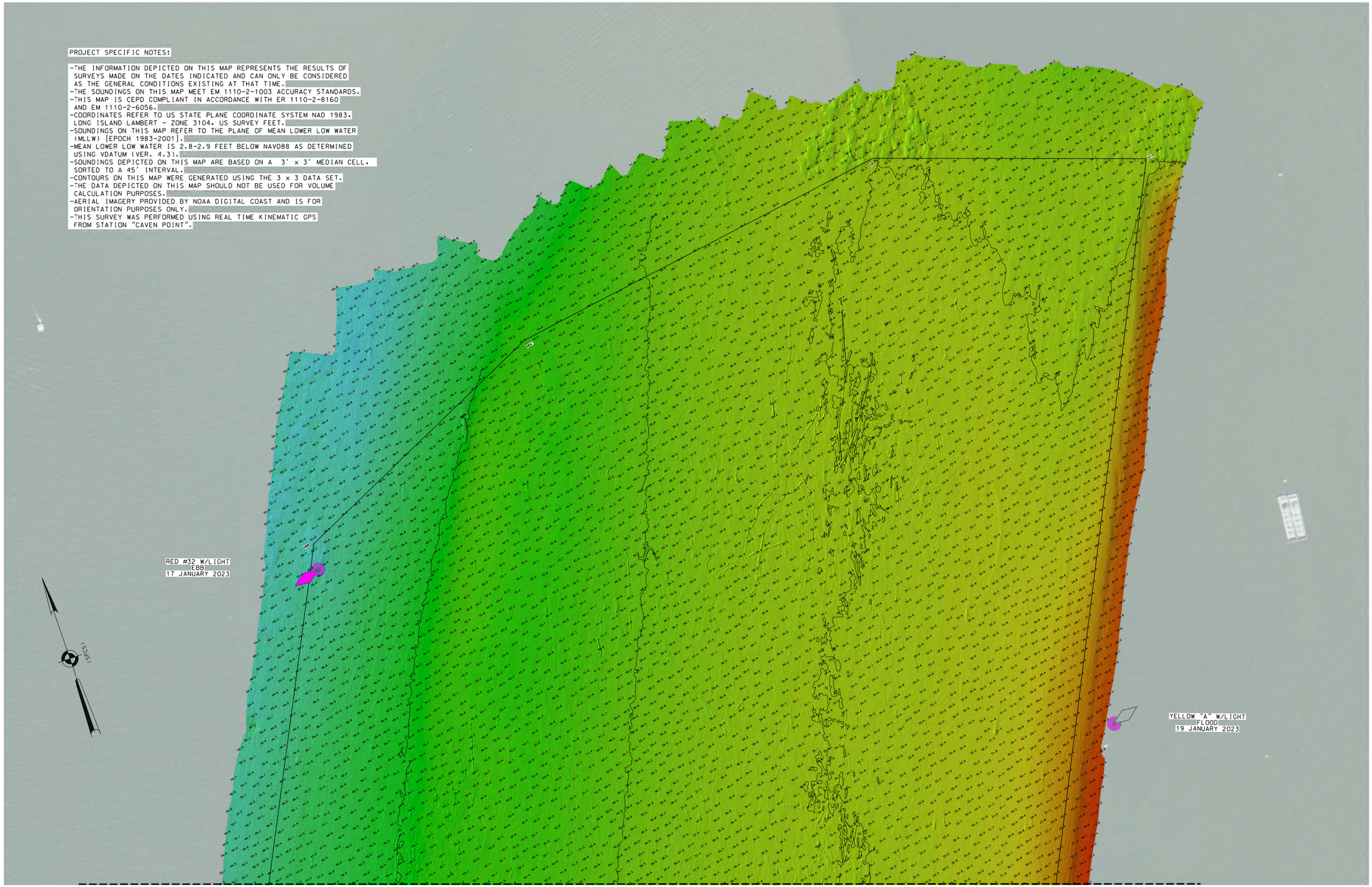

MATCH TO SHEET 5

0 200' 400'

NSRS BENCHMARK	LOCAL CONTROL DATA
BENCHMARK: P 342 (KV0561)	BENCHMARK: PK PIER 4 NORTH
ELEVATION: 38.36' (NAVD 1988)	ELEVATION: 6.03' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	08-DEC-2022
MP	JDS.CM

DATES OF SURVEY:
29 DECEMBER 2022
10, 11,17,18 JANUARY 2023
19,24,29 JANUARY 2023

REQ. NO./FILE NO.:5254/N1

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1022

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: 30 JANUARY 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-S

NEW YORK HARBOR
RED HOOK FLATS ANCHORAGE
NEW JERSEY
PLANS AND SPECS SURVEY

VH-106