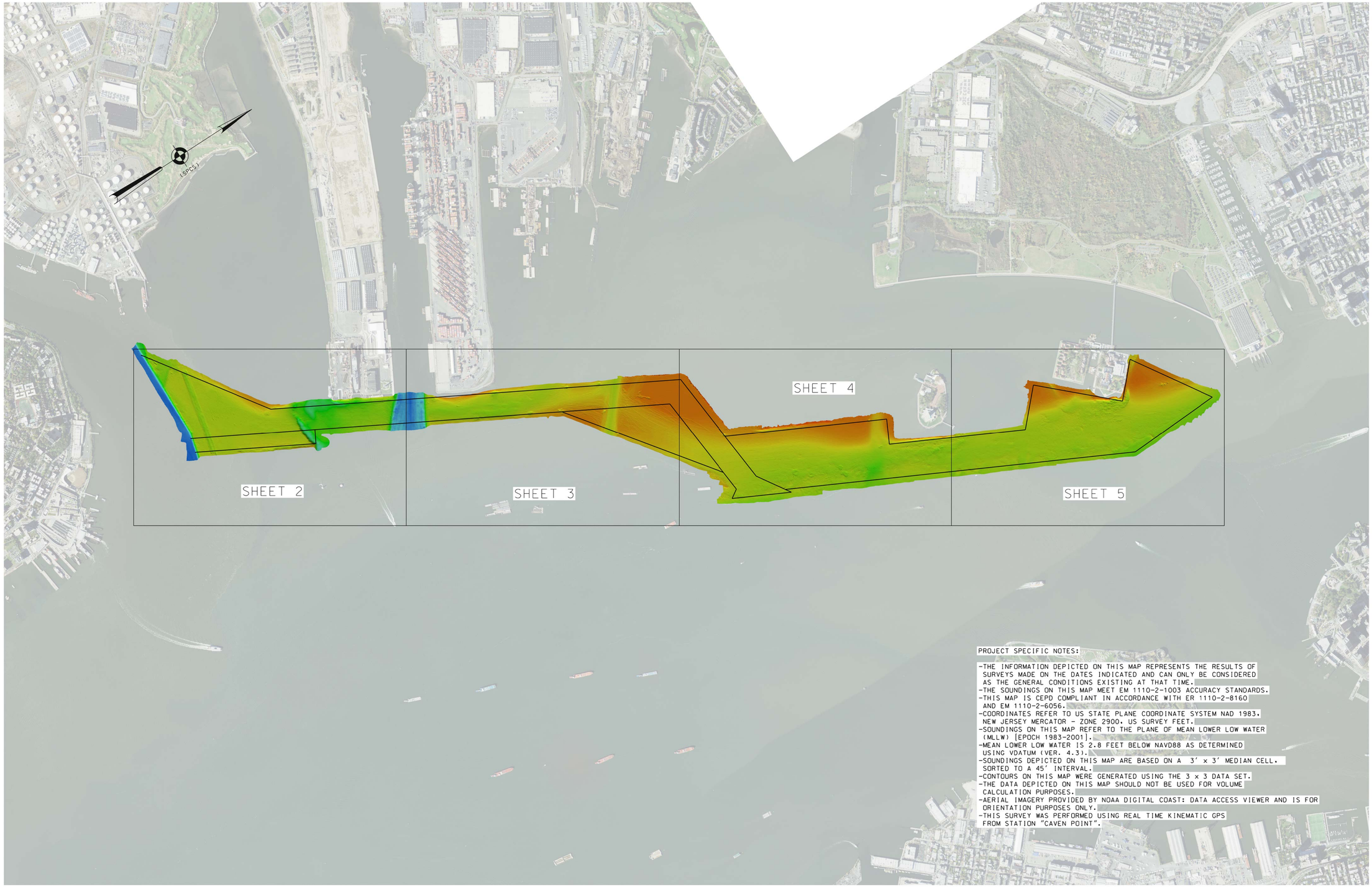


PROJECT SPECIFIC NOTES:

- 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 2.8 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: DATA ACCESS VIEWER AND IS FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT".

0 1000' 2000'

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

NSRS BENCHMARK	
BENCHMARK: S. SIMON	(PID:BBCW10)
ELEVATION: 7.25'	(NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PR	OM. EO
	WP	JDS

DATES OF SURVEY:
9-10-31 JANUARY 2023
1-2-21-28 FEBRUARY 2023

SCALE: ONE INCH = 1000 FEET

FIELD BOOKS: 1050

REQ. NO./FILE NO.: 5257/N3/N4

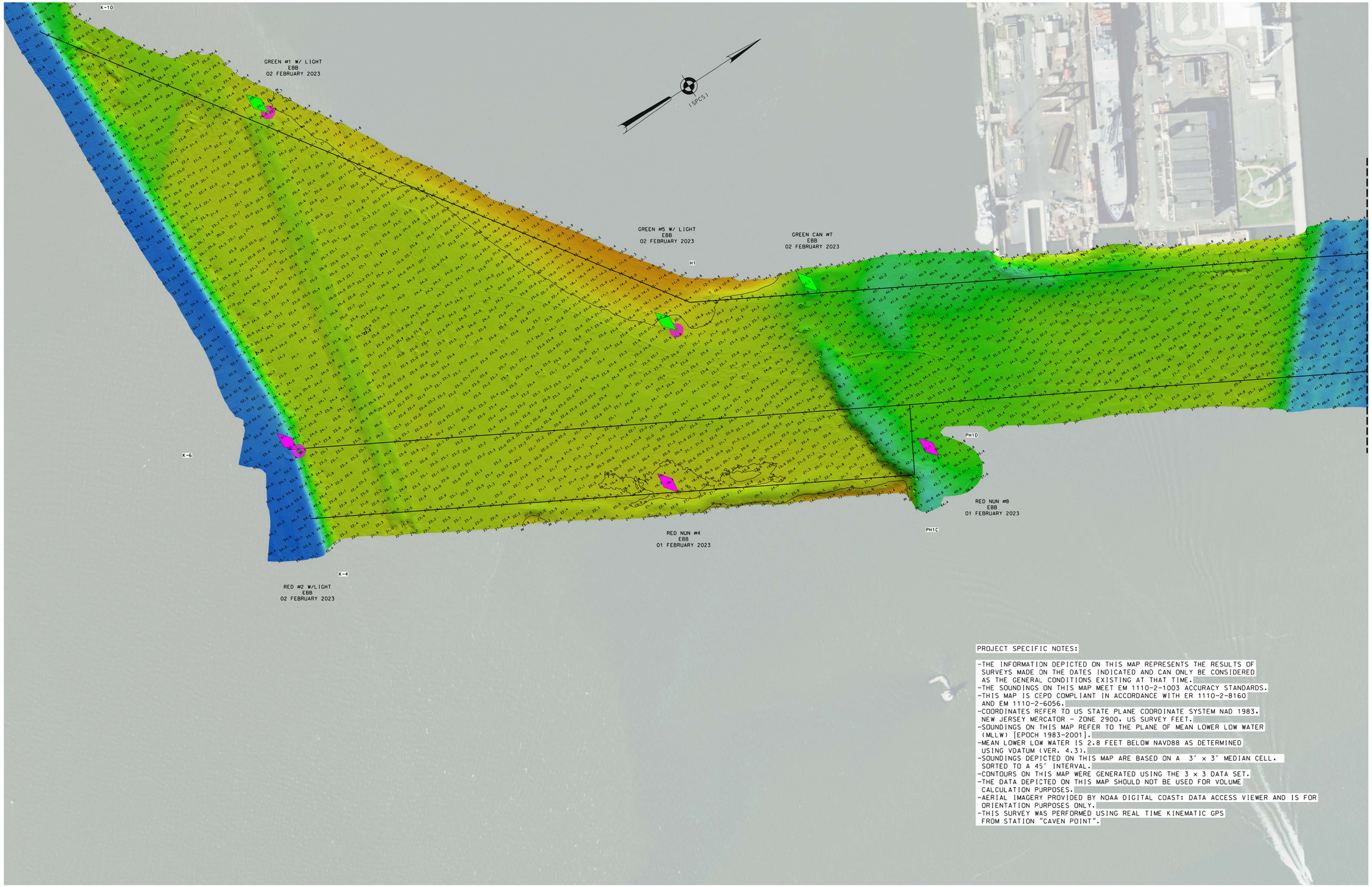
APPROVED: P. KEARNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MIRAZ — BRANCH CHIEF OF SURVEY
DATE: 14 MARCH 2023

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

NEW YORK HARBOR
CHANNEL ALONG NJ PIERHEAD LINE
CONDITION SURVEY

VH-101



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 2.8 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: DATA ACCESS VIEWER AND IS FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT".

0 200' 400'

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

NSRS BENCHMARK	
BENCHMARK: S. SIMON	(PID:BBCW10)
ELEVATION: 7.25'	(NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	OM.	EO
MP	JDS	

DATES OF SURVEY:
9-10-31 JANUARY 2023
1-2-21-28 FEBRUARY 2023

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1050

REQ. NO./FILE NO.: 5257/N3/N4

APPROVED: P. KEARNS
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
LEAD CARTOGRAPHER

APPROVED: J. MERAZ
BRANCH CHIEF OF SURVEY

DATE: 14 MARCH 2023

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

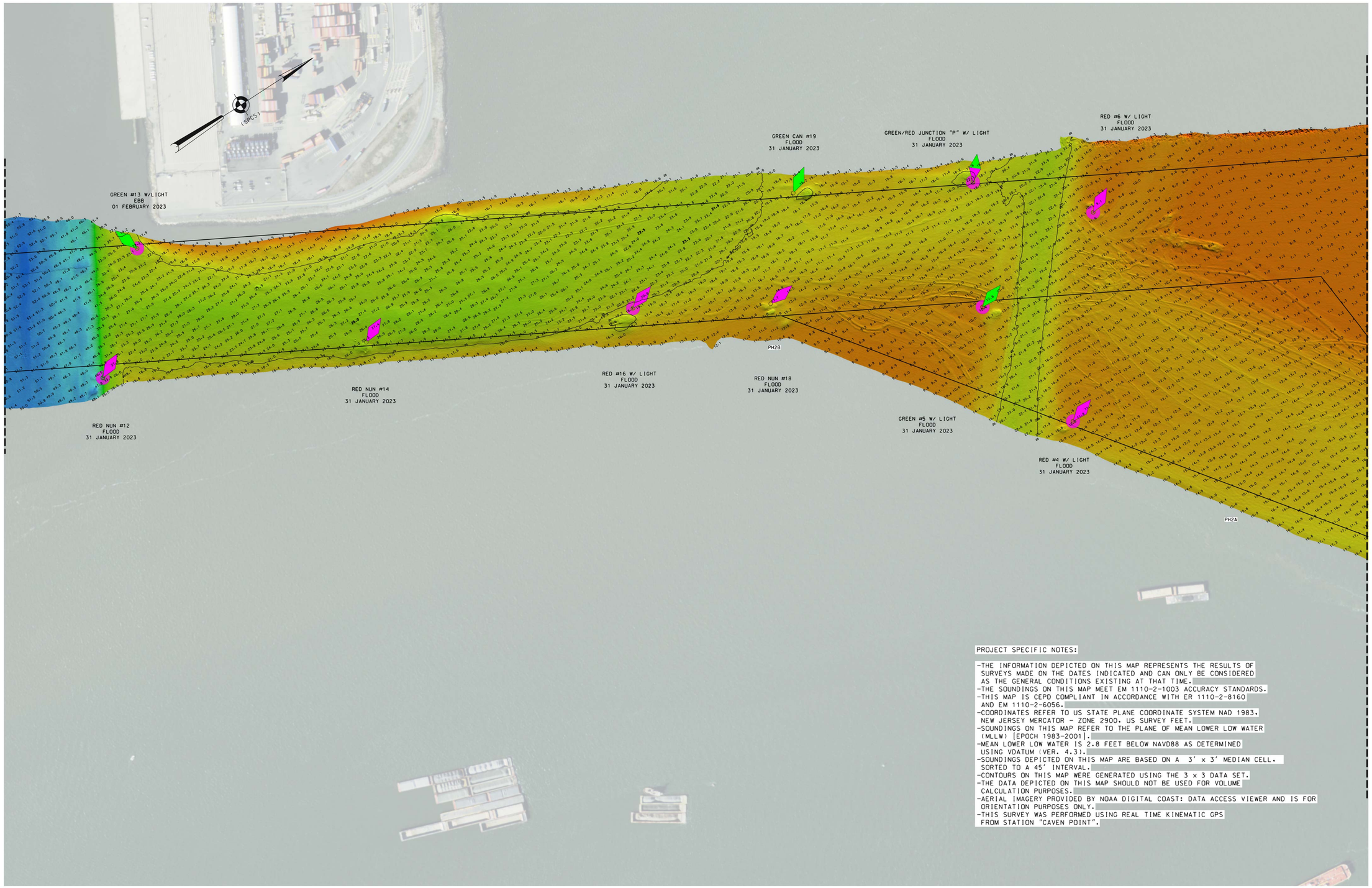
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEW YORK HARBOR
CHANNEL ALONG NJ PIERHEAD LINE

CONDITION SURVEY

VH-102

2 OF 5



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 2.8 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: DATA ACCESS VIEWER AND IS FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT".

0 200' 400'

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

NSRS BENCHMARK	
BENCHMARK: S. SIMON	(PID:BBCW10)
ELEVATION: 7.25'	(NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	OM.	EQ
WP	JDS	

DATES OF SURVEY:
9-10-31 JANUARY 2023
1-2-21-28 FEBRUARY 2023

SCALE: ONE INCH = 200 FEET

FIELD BOOKS: 1050

REQ. NO./FILE NO.: 5257/N3/N4

APPROVED: P. KEARNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MERAZ — SUPVRY CHIEF OF SURVEY
DATE: 14 MARCH 2023

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

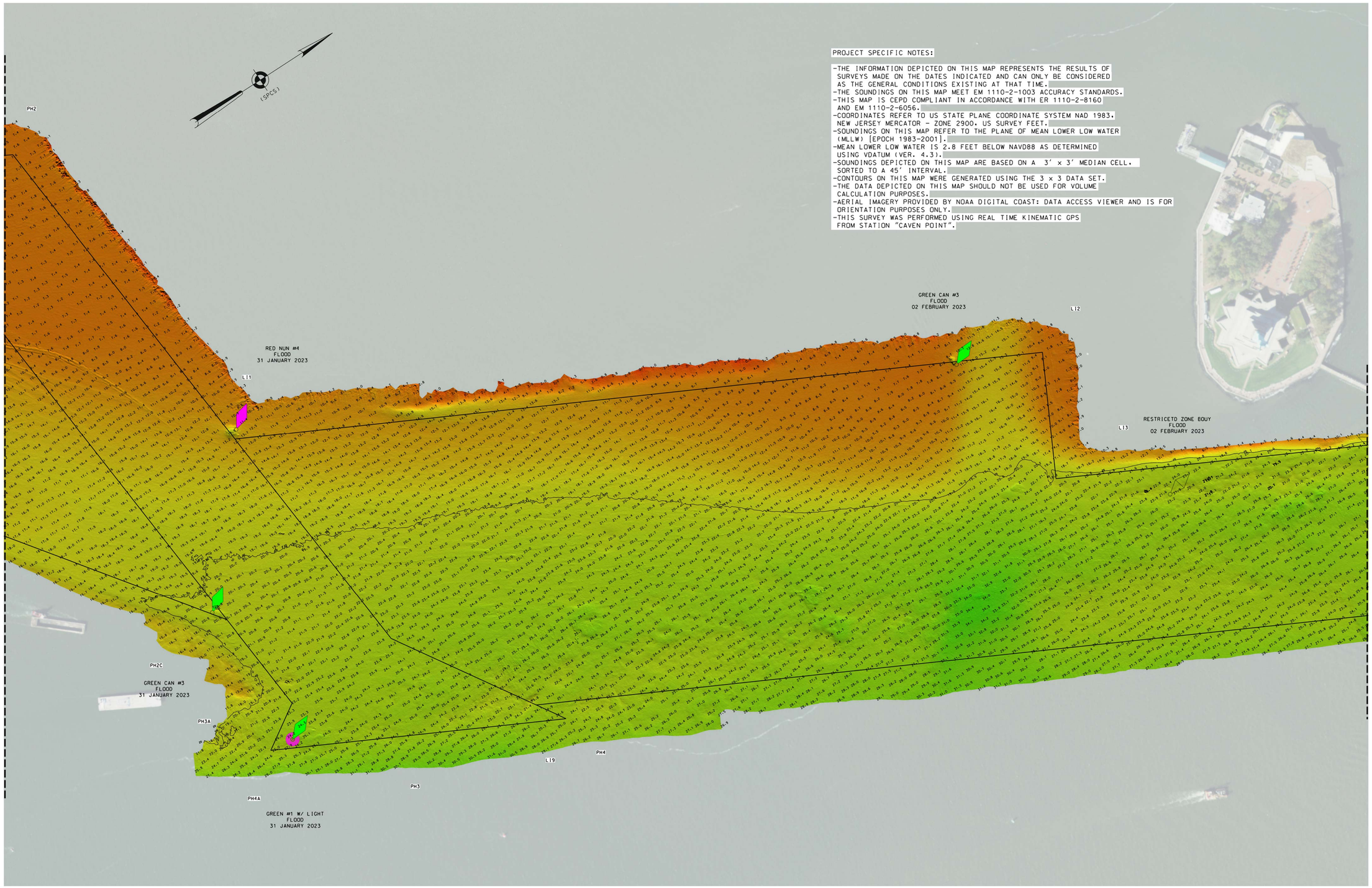
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEW YORK HARBOR
CHANNEL ALONG NJ PIERHEAD LINE

CONDITION SURVEY

VH-103

3 OF 5



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 2.8 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: DATA ACCESS VIEWER AND IS FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT".

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

NSRS BENCHMARK	
BENCHMARK: S. SIMON	(PID:BBCW10)
ELEVATION: 7.25'	(NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PR	OM. EO	
WP	JDS	

DATES OF SURVEY:
9.10-31 JANUARY 2023
1.2-21-28 FEBRUARY 2023

SCALE: ONE INCH = 200 FEET

FIELD BOOKS: 1050

REQ. NO./FILE NO.: 5257/N3/N4

APPROVED: P. KEARNS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MERAZ — ACTING CHIEF OF SURVEY
DATE: 14 MARCH 2023

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

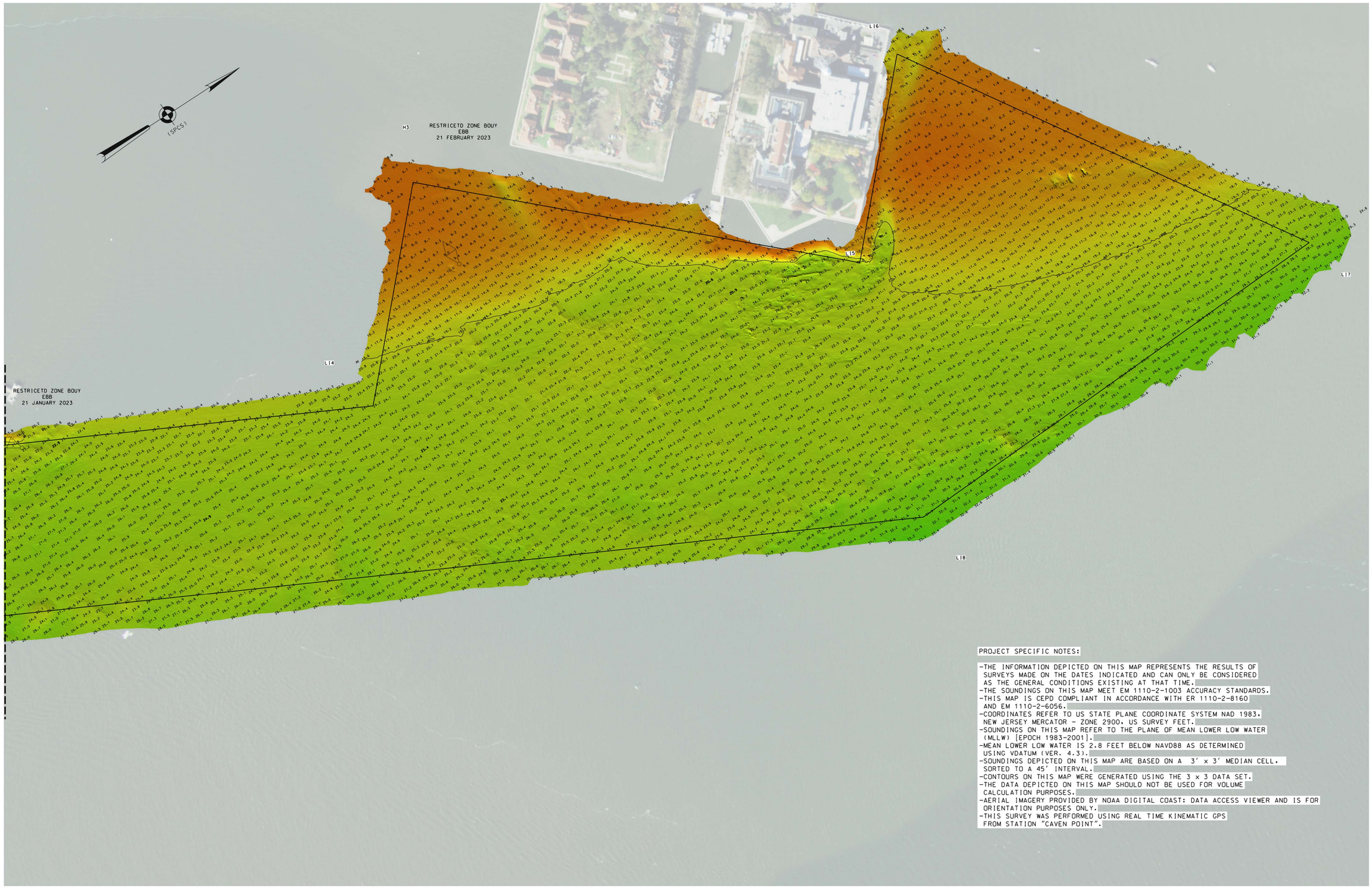
OPERATIONS DIVISION
SURVEYS AND MAPPING BRANCH
CENAN-OP-SS

NEW YORK HARBOR
CHANNEL ALONG NJ PIERHEAD LINE

CONDITION SURVEY

VH-104

4 OF 5



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 2.8 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: DATA ACCESS VIEWER AND IS FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT".

LOCAL CONTROL DATA		NSRS BENCHMARK	
BENCHMARK: P 38	(PID:KV0333)	BENCHMARK: S. SIMON	(PID:BBCW10)
ELEVATION: 21.93'	(NAVD 1988)	ELEVATION: 7.25'	(NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

PR	OM.	EO
MP	JDS	

DATES OF SURVEY:
9-10-31 JANUARY 2023
1-2-21-28 FEBRUARY 2023

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1050

REQ. NO./FILE NO.: 5257/N3/N4

APPROVED:	P. KEARNS	FIELD CARTOGRAPHER
APPROVED:	M. FORTE	CIVIL ENGINEERING TECHNICIAN
APPROVED:	P. BHADUR	LEAD CARTOGRAPHER
APPROVED:	J. MIRAZ	DEPUTY CHIEF OF SURVEY
DATE:	14 MARCH 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

NEW YORK HARBOR
CHANNEL ALONG NJ PIERHEAD LINE
CONDITION SURVEY

VH-105

5 OF 5