FILE NO.: 114
RECORDS NO.: 4657 D/N1/N2/N3

NEW YORK HARBOR
RED HOOK FLATS ANCHORAGE
CONDITION SURVEY

SHEET 1 OF 3

VH-101

PROJECT SPECIFIC NOTES:
-THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
-THE SOUNDINGS DEPICTED ON THIS MAP WAS COLLECTED USING PRODUCT CLASSIFICATION AS REFERENCED IN EM 110-2-1003.
-SOUNDINGS ON THIS MAP ARE 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. 3.01).
-CONTOURS ON THIS MAP WERE GENERATED USING THE 3'x3' MEDIAN DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
FROM STATION "CAVEN POINT".
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK	
BENCHMARK:	P 342 (PID: KV0561)
ELEVATION:	38.36' (NAVD 1988)

LOCAL CONTROL DATA	
BENCHMARK:	PK PIER 4 NORTH
ELEVATION:	6.18' (NAVD 1988)

GREEN 11 GONG W/ LIGHT
FLOOD
10 JANUARY 2018

YELLOW A W/ LIGHT
FLOOD
22 JANUARY 2018

RED 32 W/ LIGHT
EBB
22 JANUARY 2018

MATCH TO SHEET 2

N 186,000
E 974,000
N 185,000
E 973,000
N 184,000
E 972,000
N 183,000
E 971,000
N 182,000
E 970,000
N 181,000
E 969,000
N 180,000
E 968,000
N 179,000
E 967,000

(GRID NORTH)

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

APPROVED: BERTOLOTTI.APPOLONIA.GEORGE.1230
APPROVED: M. FORTE
APPROVED: D. CLARKE
APPROVED: A. MIRAZ
DATE: 15 FEBRUARY 2018

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

DATES OF SURVEY:
22 JAN 2018
24 & 25 JAN 2018
2 & 6 FEB 2018

FILE NO.: 114
RECORDS NO.: 4657 D/N1/N2/N3

DRC	ESQ-DSC	
MB	PR	

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

4657-Metadata

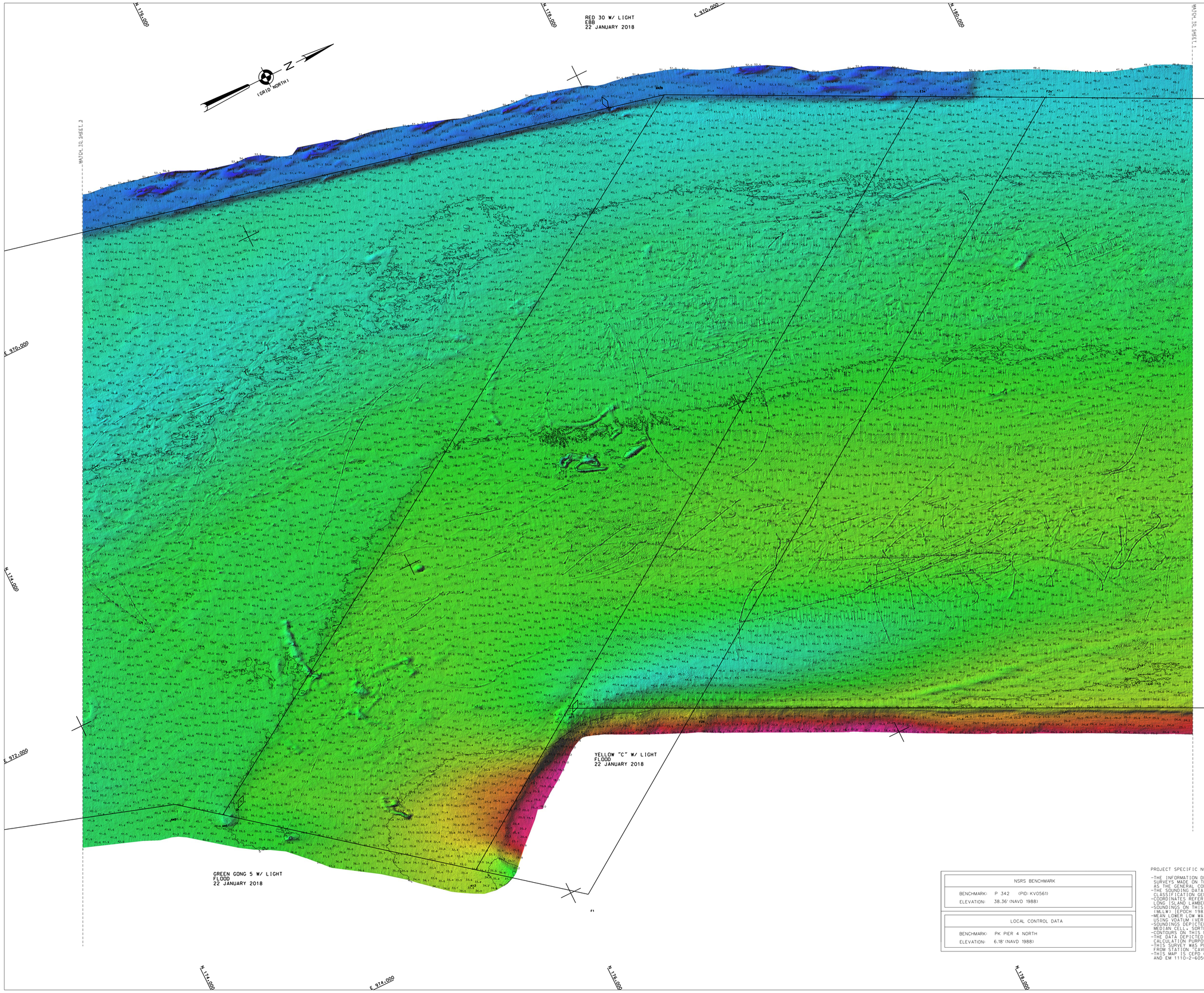
(PROJECT METADATA MAY BE VIEWED BY DOUBLE CLICKING ON THE OUTSIDE EDGE OF THE METADATA ICON)

U. S. ARMY

CORPS OF ENGINEERS

CORPS OF ENGINEERS

U. S. ARMY



4657-Metadata

(PROJECT METADATA MAY BE VIEWED BY DOUBLE CLICKING ON THE OUTSIDE EDGE OF THE METADATA ICON)

NSRS BENCHMARK	
BENCHMARK:	P 342 (PID: KV0561)
ELEVATION:	38.36' (NAVD 1988)

LOCAL CONTROL DATA	
BENCHMARK:	PK PIER 4 NORTH
ELEVATION:	6.18' (NAVD 1988)

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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL AS SPECIFIED IN EM 1110-2-1003.
-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 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.0).
-SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3'x3' MEDIAN CELL, SORTED TO A 45° INTERVAL.
-CONTOURS ON THIS MAP WERE GENERATED USING THE 3'x3' MEDIAN DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT".
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	DES-PDC	PR
	PDC	MP

DATES OF SURVEY:
22-24 JAN 2018
24 FEB 2018

FILE NO.: 114
REQUEST NO.: 4657 D/N1/N2/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

APPROVED: BERTO.OTT1.APPLO.KEANS.GEORGE
CHIEF, SURVEY BRANCH

APPROVED: M. FORTE
CHIEF, ENGINEERING SECTION

APPROVED: D. CLARKE
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
CHIEF, GROUP OF SURVEYS

DATE: 15 FEBRUARY 2018

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS-S

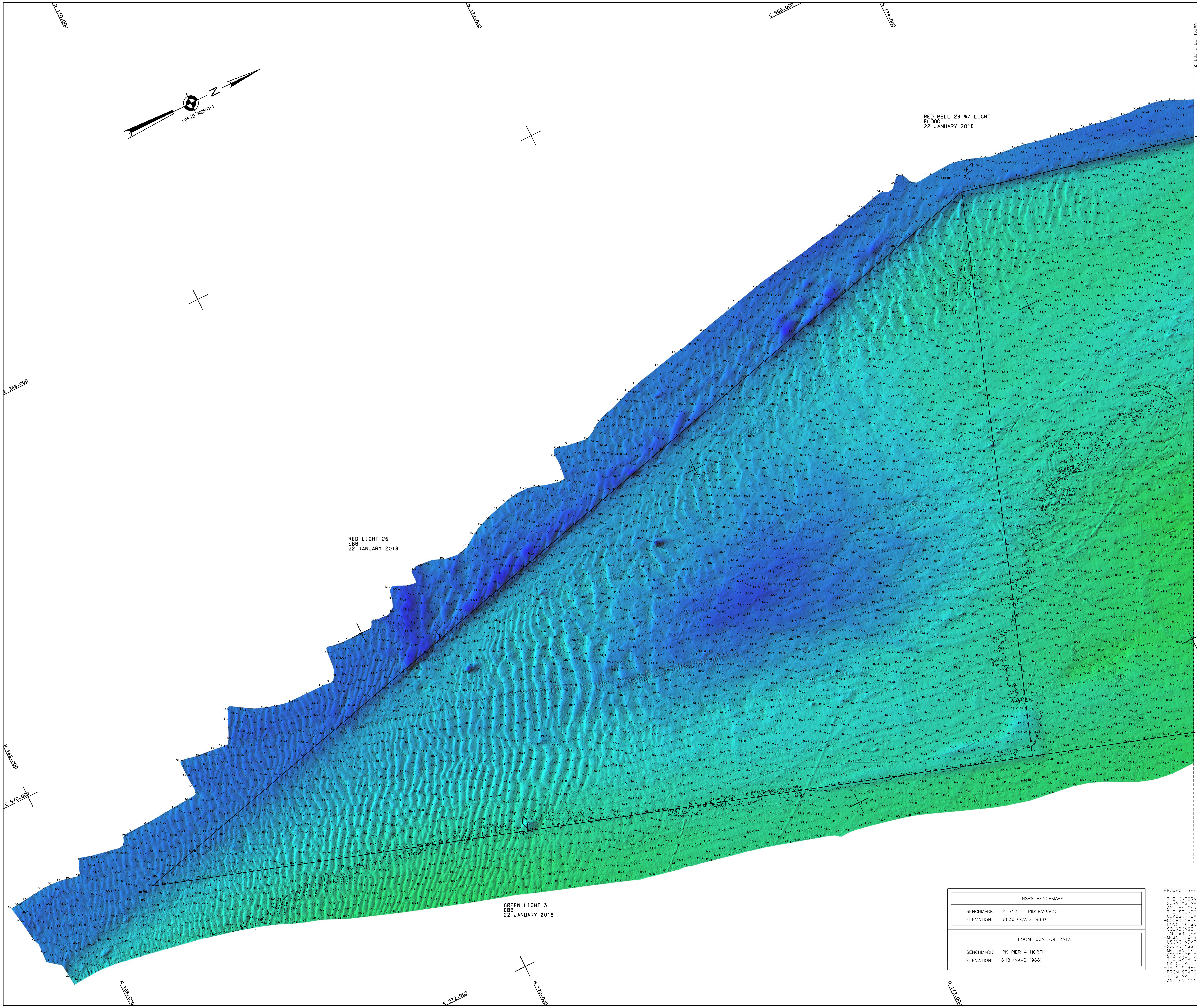
NEW YORK HARBOR
RED HOOK FLATS ANCHORAGE
CONDITION SURVEY

VH–102

SHEET 2 OF 3

CORPS OF ENGINEERS

U. S. ARMY



US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

						ESQ.PDC	PR
						PDC	MP

DATES OF SURVEY:
22,24,26,30,31 JAN 2018
2,6,8 FEB 2018

FILE NO.: 114
REQUEST NO.: 4657 D/N1/N2/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI, APPELD, KEARNS, GEORGE
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS

DATE: 15 FEBRUARY 2018

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

4657-Metadata

(PROJECT METADATA MAY BE VIEWED BY DOUBLE CLICKING ON THE OUTSIDE EDGE OF THE METADATA ICON)

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BENCHMARK:	P 342 (PID: KV0561)
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NEW YORK HARBOR
RED HOOK FLATS ANCHORAGE
CONDITION SURVEY

VH–103

SHEET 3 OF 3

FILE NO.: 114
REQUEST NO.: 4657 D/N1/N2/N3