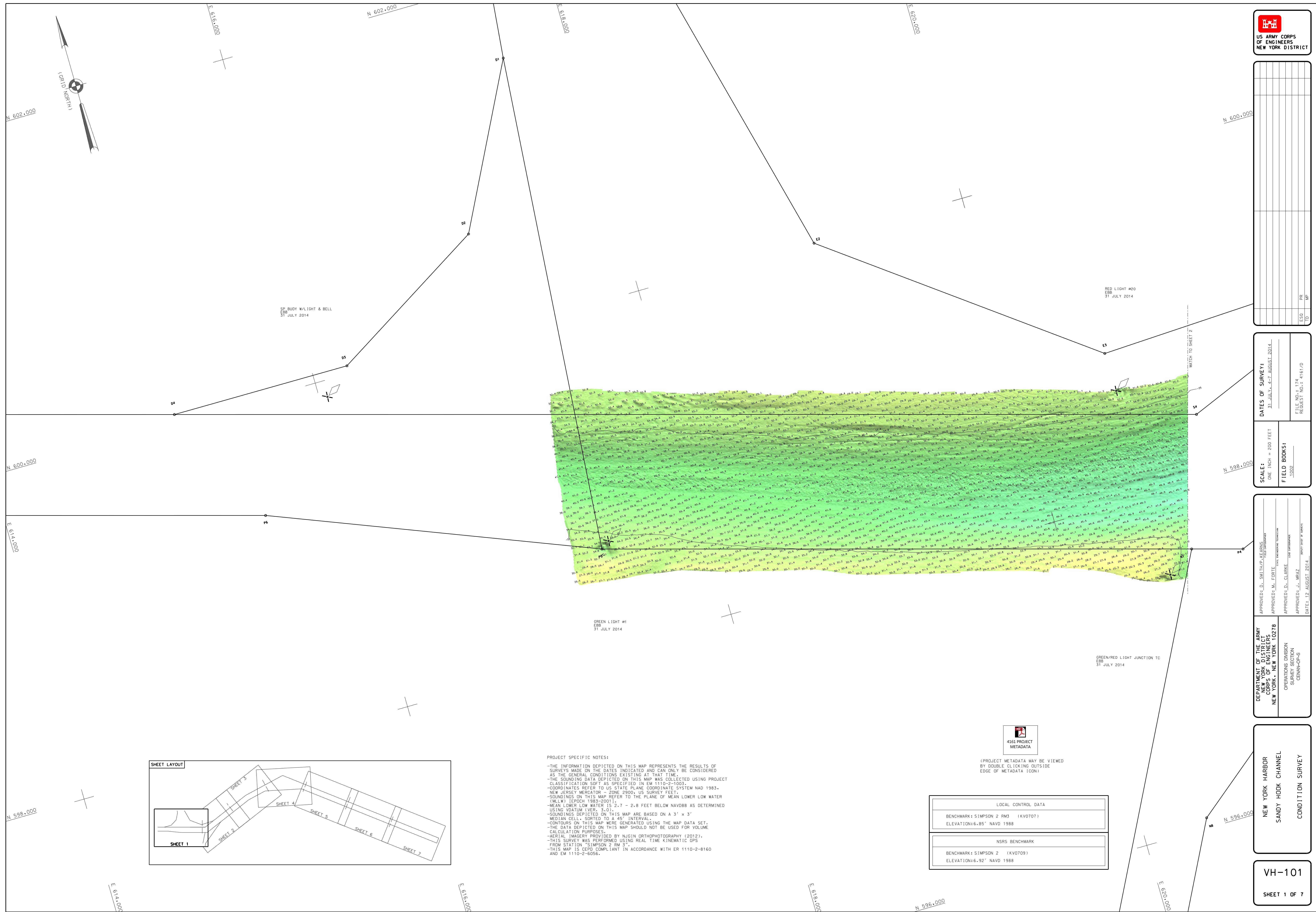
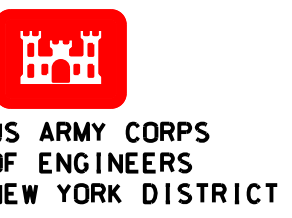
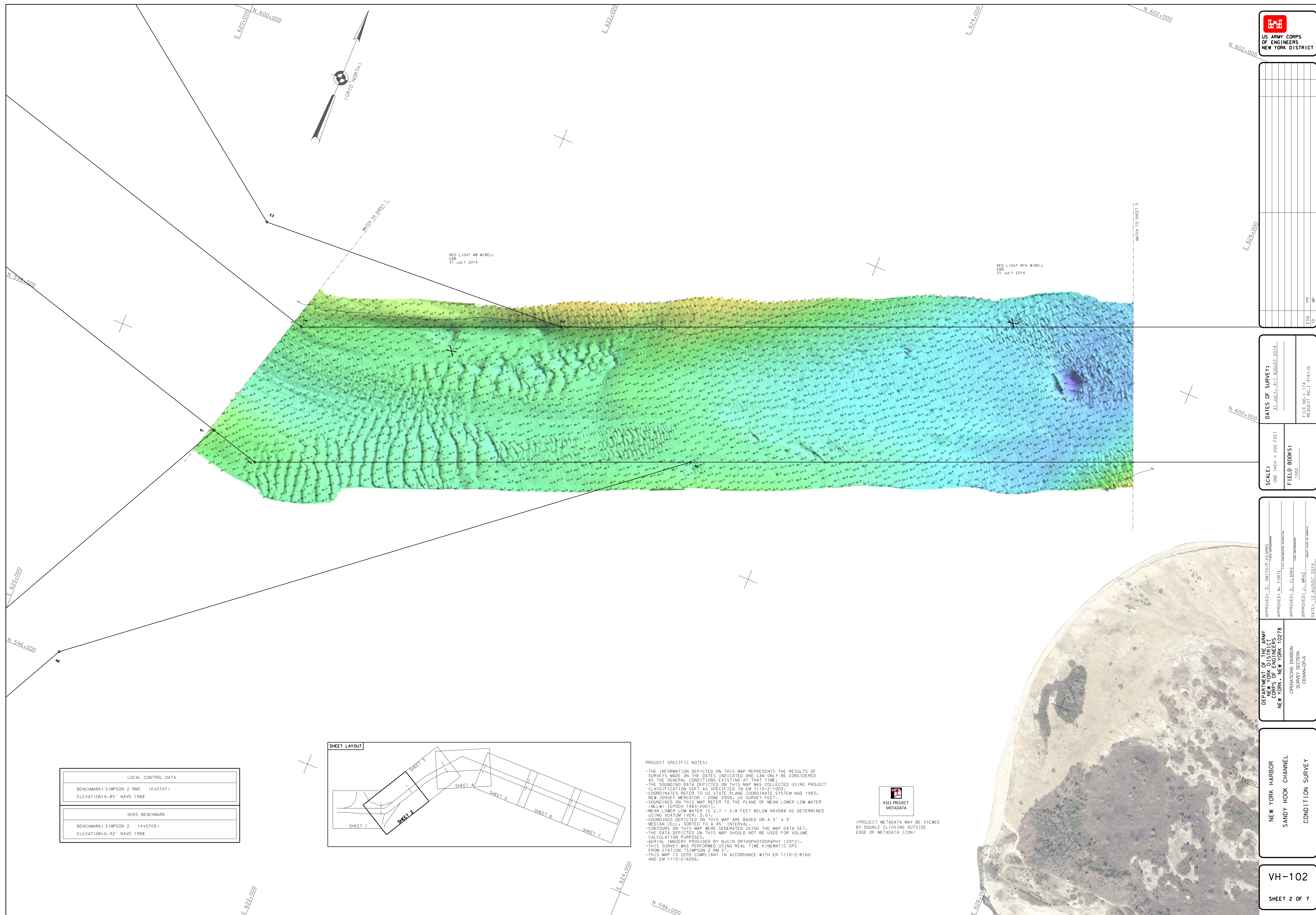
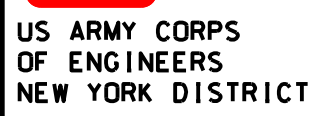
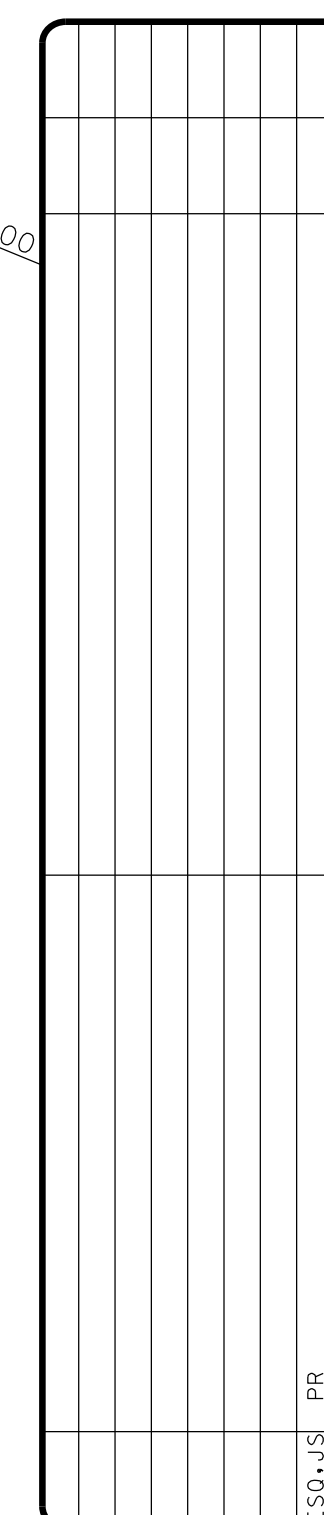








DATES OF SURVEY:
31 JULY, 4-7 AUGUST 2014
9-10 SEPTEMBER 2014

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1002

APPROVED: D. SMITH/P. KEARNS
FIELD SUPERVISOR

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CONSTRUCTION

APPROVED: J. MRAZ
SOCIETY CHIEF OF SURVEYS

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

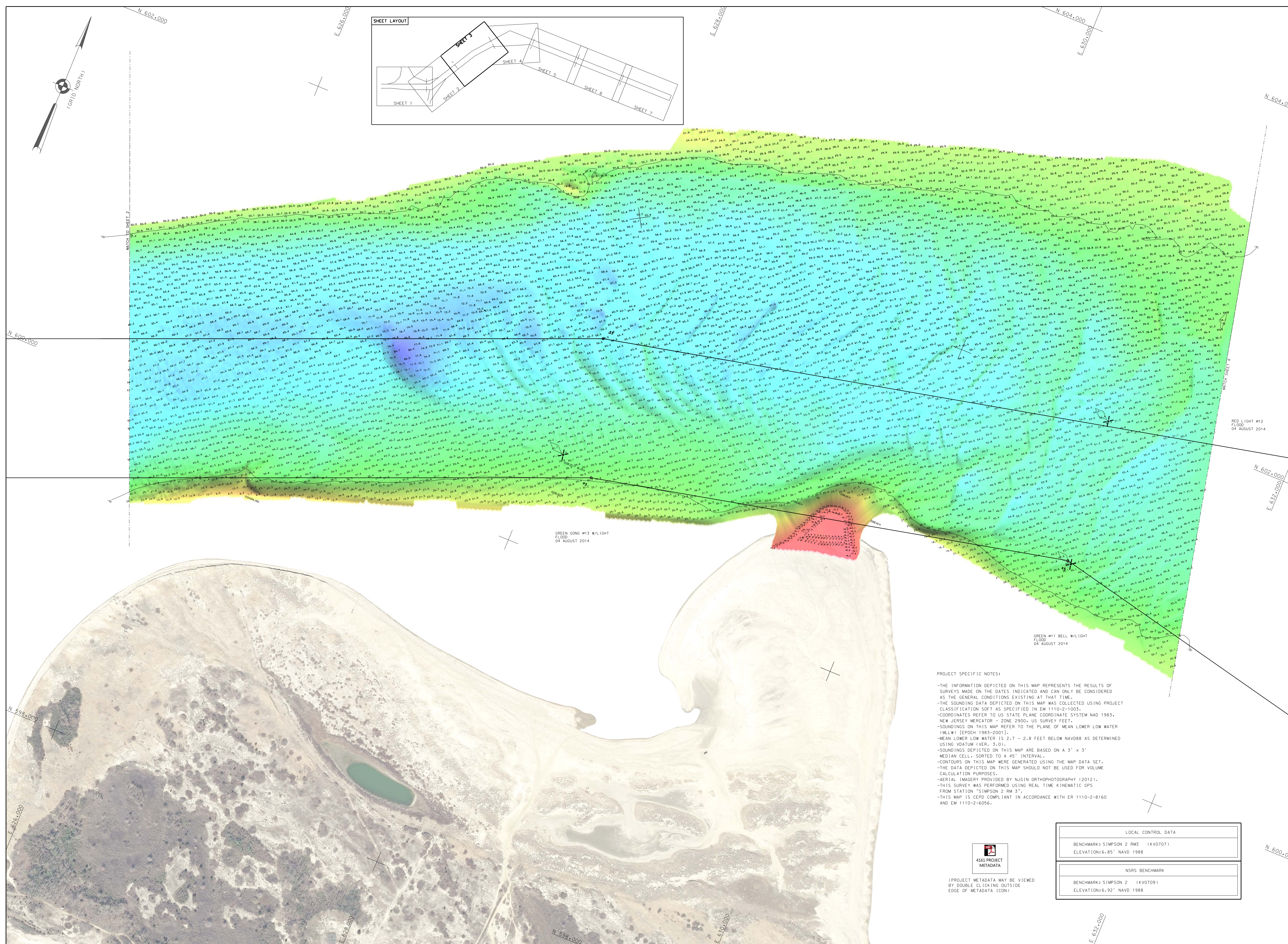
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-5

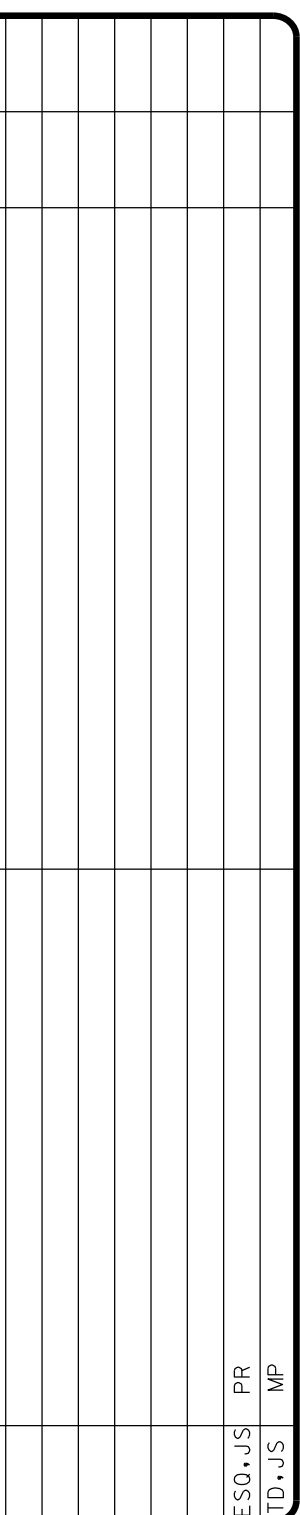
NEW YORK HARBOR
ANDY HOOK CHANNEL
CONDITION SURVEY

VH-103

SHEET 3 OF 7

FILE NO.: 174
REQUEST NO.: 4161/D





SCALE: ONE INCH = 200 FEET	DATES OF SURVEY: 31 JULY, 4-7 AUGUST 2014 9-10 SEPTEMBER 2014
FIELD BOOKS: 1002	FILE NO.: 174 REQUEST NO.: 416170

OPERATIONS DIVISION SUPER SECTION CHW-OPS	APPROVED: M. FORTI TITLE: MANAGING SENIOR	APPROVED: D. CLARKE TITLE: CHAIRPERSON	APPROVED: D. SMITH/P. KEARNS TITLE: CHAIRPERSON
NEW YORK DISTRICT NEW YORK CITY CORPS OF ENGINEERS NEW YORK, NEW YORK 10278	DATE: 11. SEPTEMBER 2014		

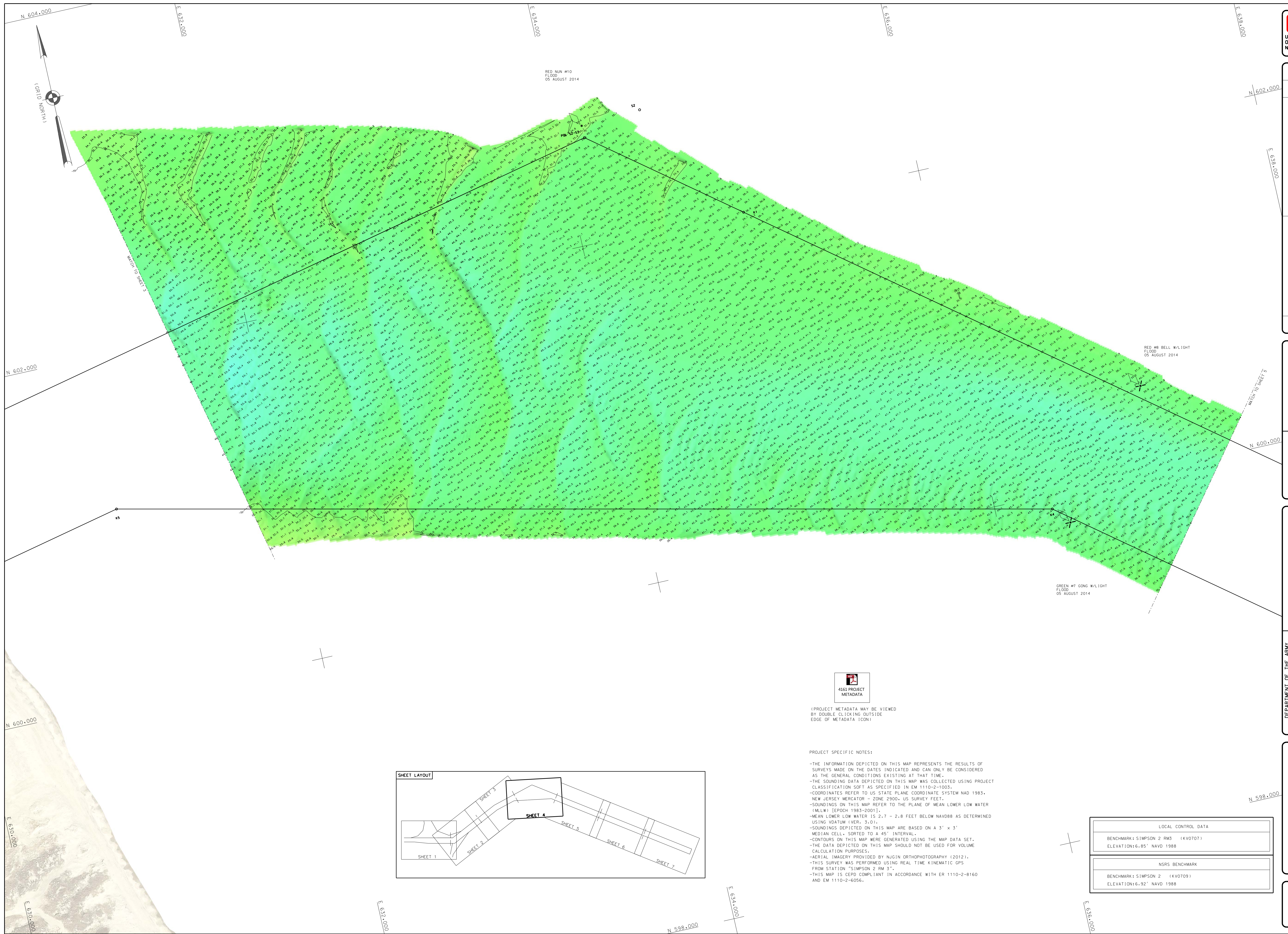
NEW YORK HARBOR
SANDY HOOK CHANNEL

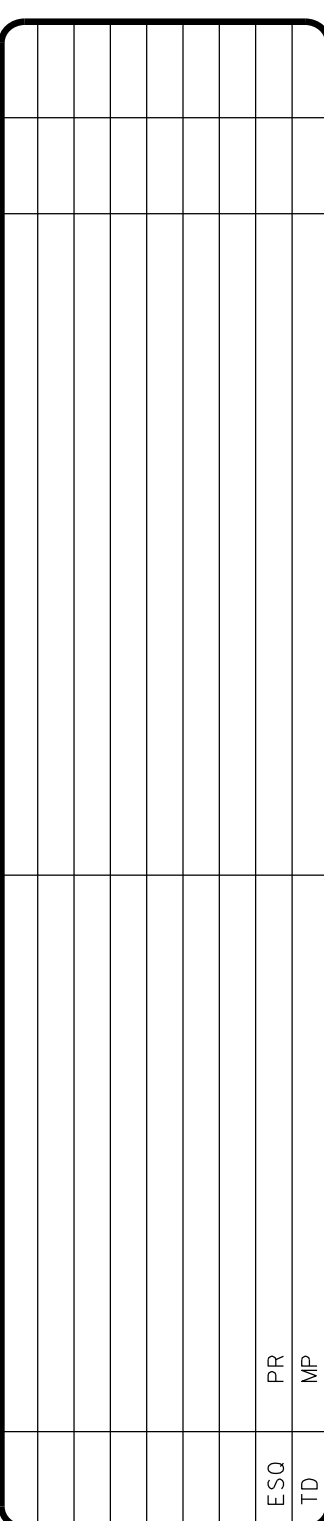
CONDITION SURVEY

VH-104

SHEET 4 OF 7

FILE NO.: 174
REQUEST NO.: 4161/0





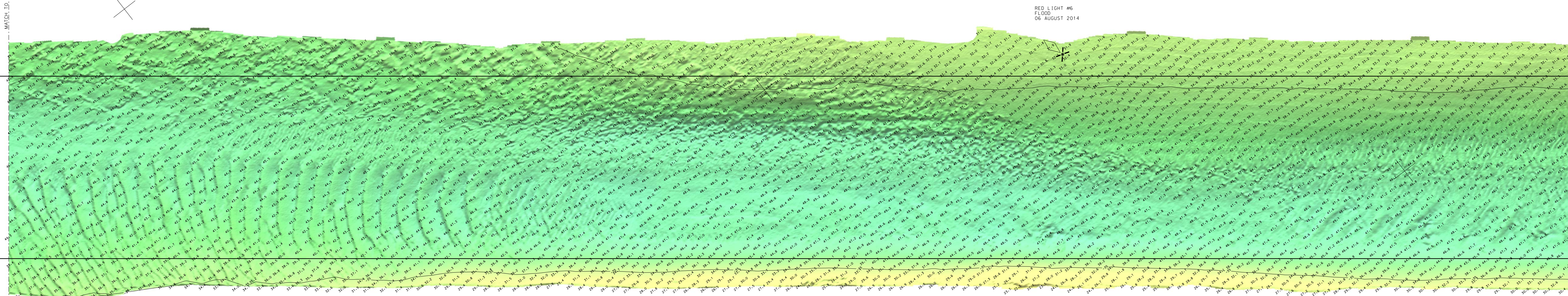
SCALE: ONE INCH = 200 FEET	DATES OF SURVEY: 31 JULY, 4-7 AUGUST 2014
	FILE NO.: 174 REQUEST NO.: 4161/D
FIELD BOOKS: 1002	

[illegible]

NEW YORK HARBOR
SANDY HOOK CHANNEL
CONDITION SURVEY

VH-105

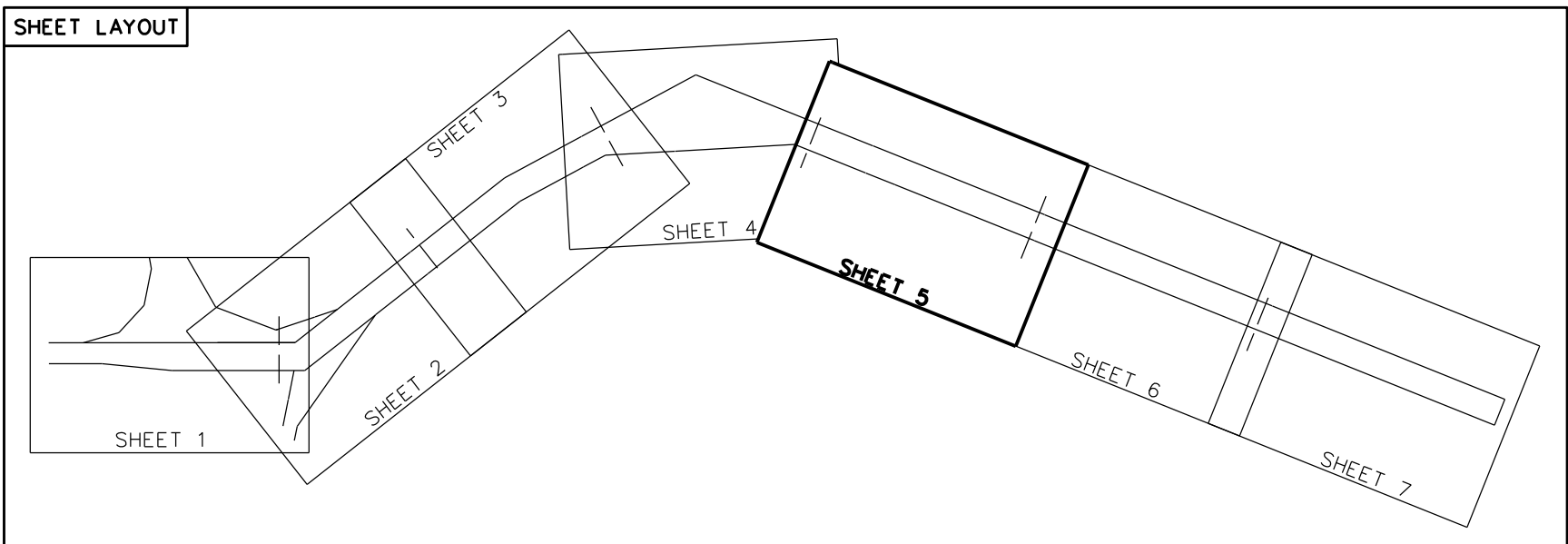
SHEET 5 OF 7



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

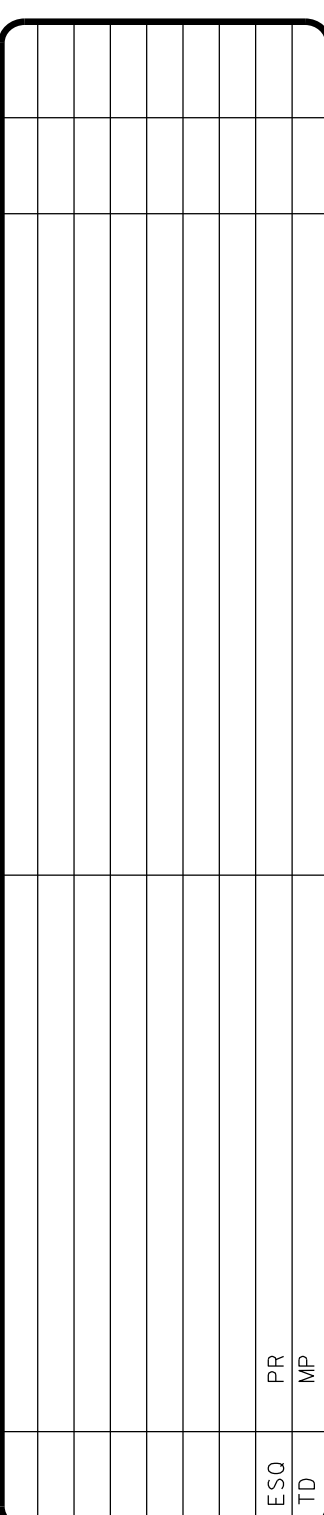
PROJECT SPECIFIC NOTES:

- 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 SOFTWARE SPECIFIED IN EN 1110-2-1003.
- 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 2.7 - 2.8 FEET BELOW NAVD88 AS DETERMINED USING DATUM 1983.
- 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 MAP DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- AERIAL IMAGERY PROVIDED BY NGIN ORTHOPHOTOGRAPHY (2012).
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "SIMPSON 2 RM 3".
- THIS MAP IS CEPP COMPLIANT IN ACCORDANCE WITH EN 1110-2-8160 AND EN 1110-2-6056.



LOCAL CONTROL DATA
BENCHMARK: SIMPSON 2 RM3 (KV0707)
ELEVATION: 6.85' NAVD 1988

NSRS BENCHMARK
BENCHMARK: SIMPSON 2 (KV0709)
ELEVATION: 6.92' NAVD 1988



SCALE: ONE INCH = 200 FEET	DATES OF SURVEY: 31 JULY, 4-7 AUGUST 2014
FIELD BOOKS: 1002	FILE NO.: 174 REQUEST NO.: 4161/D

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

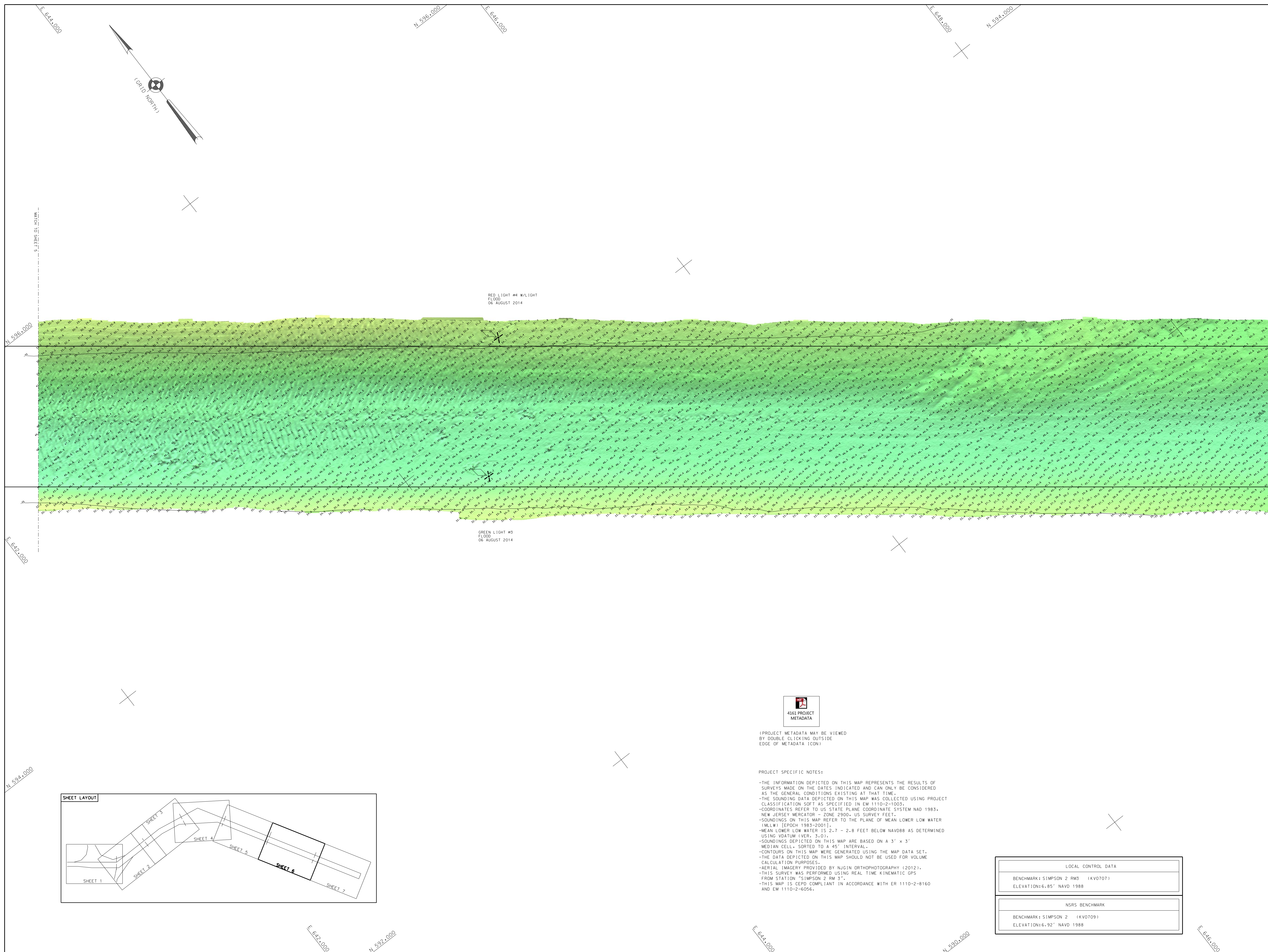
APPROVED: D. SMITH PL. 1 NR 00000000
APPROVED: M. FORTE
APPROVED: D. CLARKE PL. 00000000
DATE: 12 AUGUST 2014

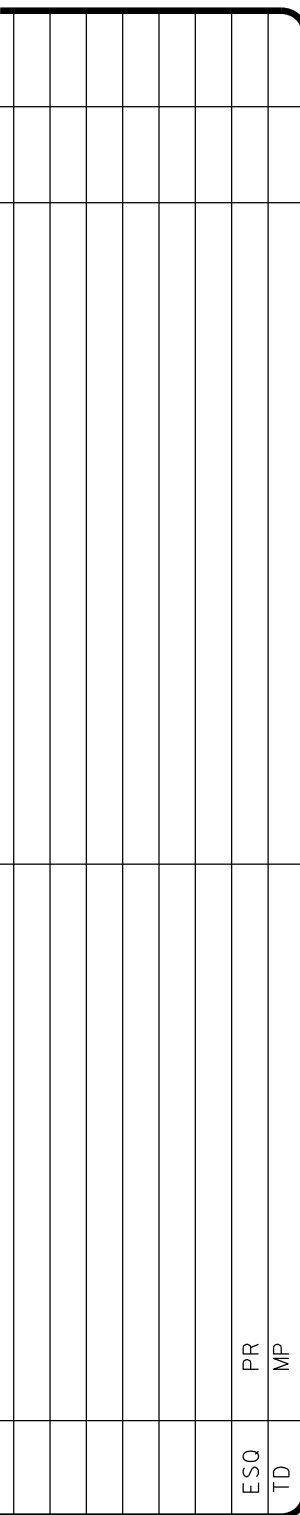
NEW YORK HARBOR
SANDY HOOK CHANNEL
CONDITION SURVEY

VH-106

SHEET 6 OF 7

FILE NO.: 174
REQUEST NO.: 4161/D





DATES OF SURVEY:
31 JULY, 4-7 AUGUST 2014

FILE NO.: 174
REQUEST NO.: 4161/D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1002

APPROVED: D. SMITH/P. KEARNS
FIELD CATERPILLAR

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CATERPILLAR

APPROVED: J. MRAZ
EQUIPMENT CHIEF OF SERVICE

DATE: 12 AUGUST 2014

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK HARBOR
SANDY HOOK CHANNEL
CONDITION SURVEY

VH-107

SHEET 7 OF 7

FILE NO.: 174
REQUEST NO.: 4161/D

