[illegible]

SCALE: ONE INCH = 50 FEET	DATES OF SURVEY: 20-22 MAY 2013
FIELD BOOKS: 1000 _____ _____ _____	FILE NO.: 45 REQUEST NO.: 399PM2

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

APPROVED: J. J. ABRAHAMSEN
TECH COORDINATOR

APPROVED: M. F. FORTE
CIVIL ENGINEERING SECTION

APPROVED: D. J. CLARKE
JACK COORDINATOR

APPROVED: J. J. MRAZ
POSTILLION COORDINATOR

DATE: 28 MAY 2013

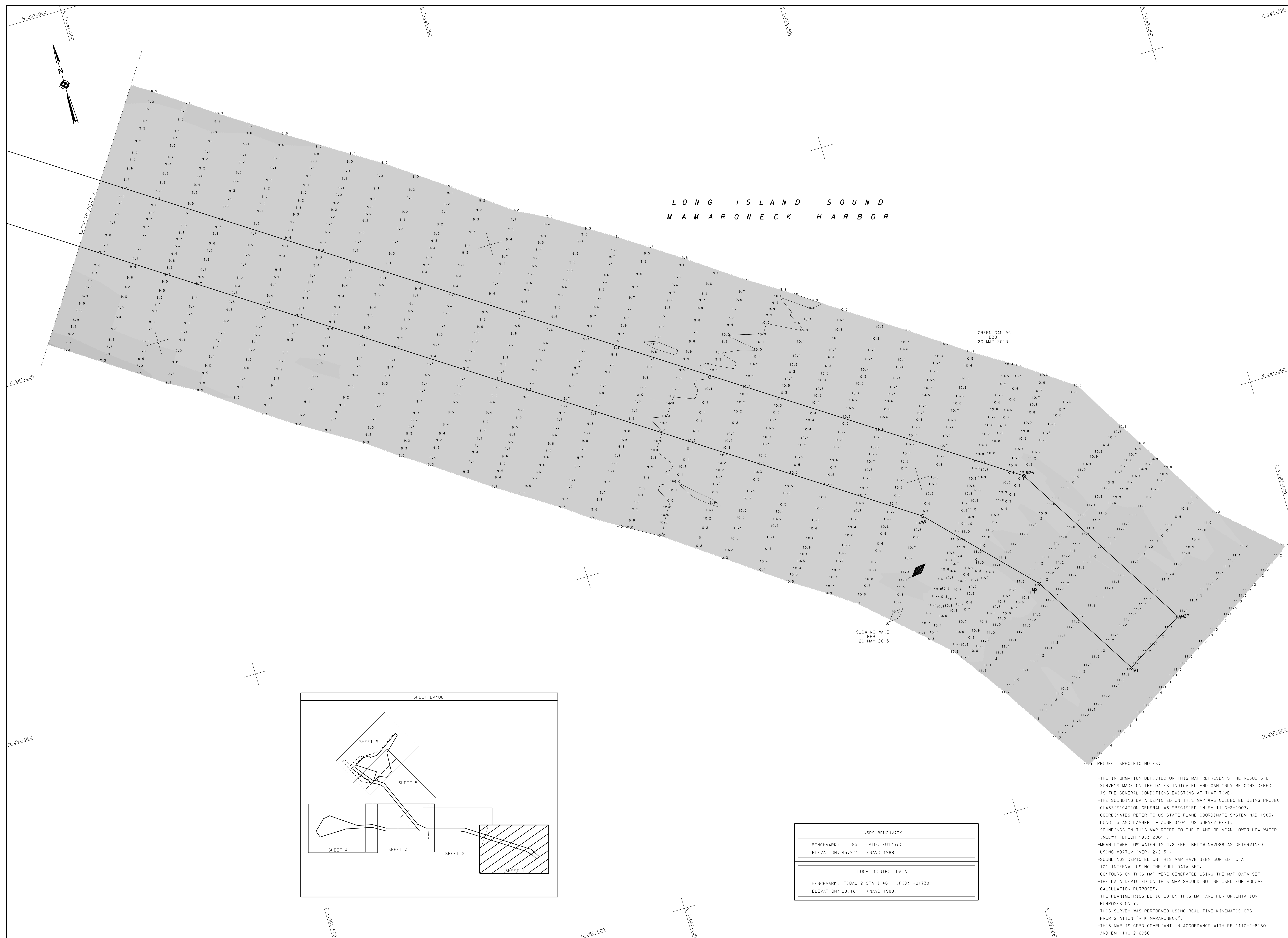
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

MAMARONECK HARBOR, NEW YORK

VH-101

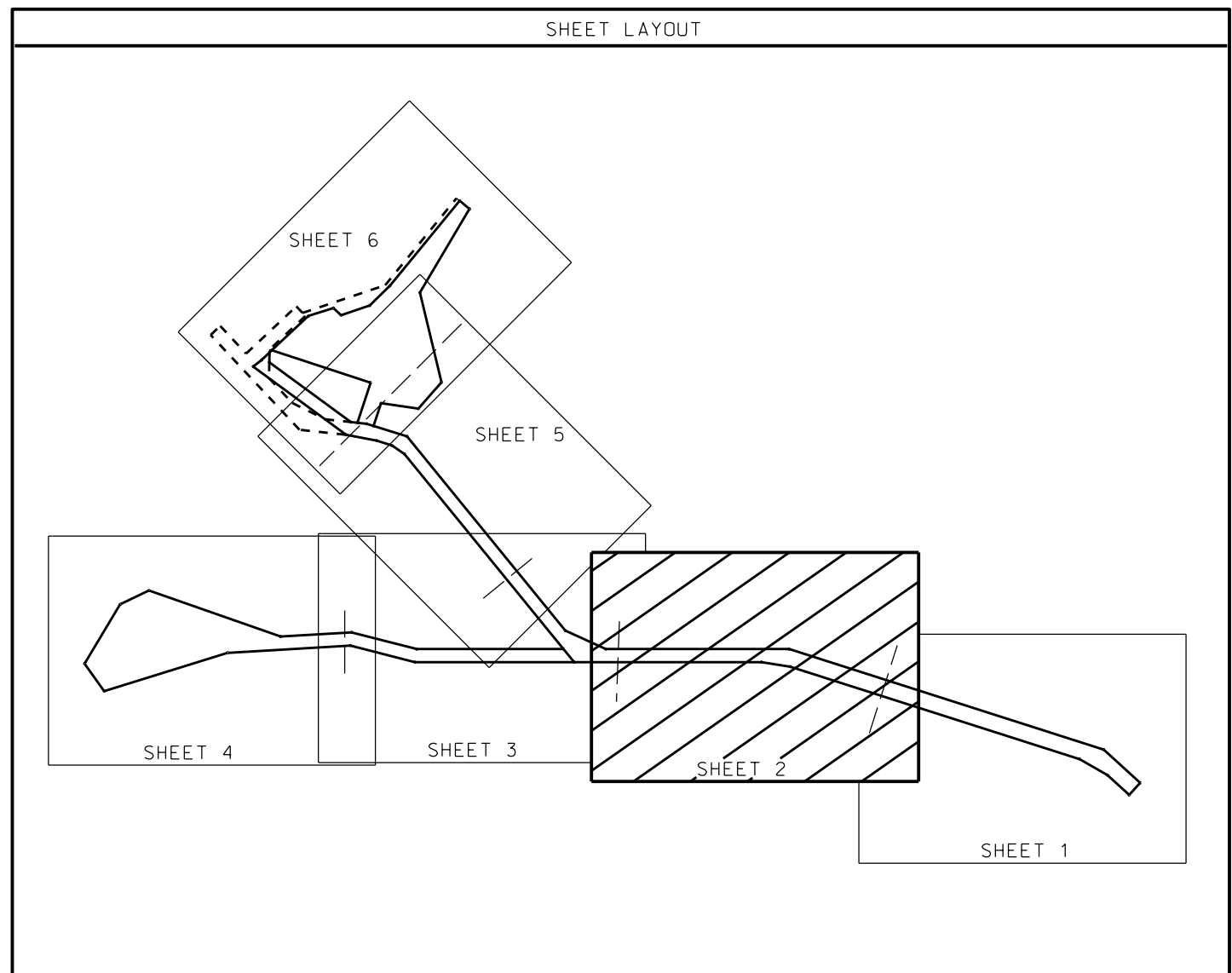
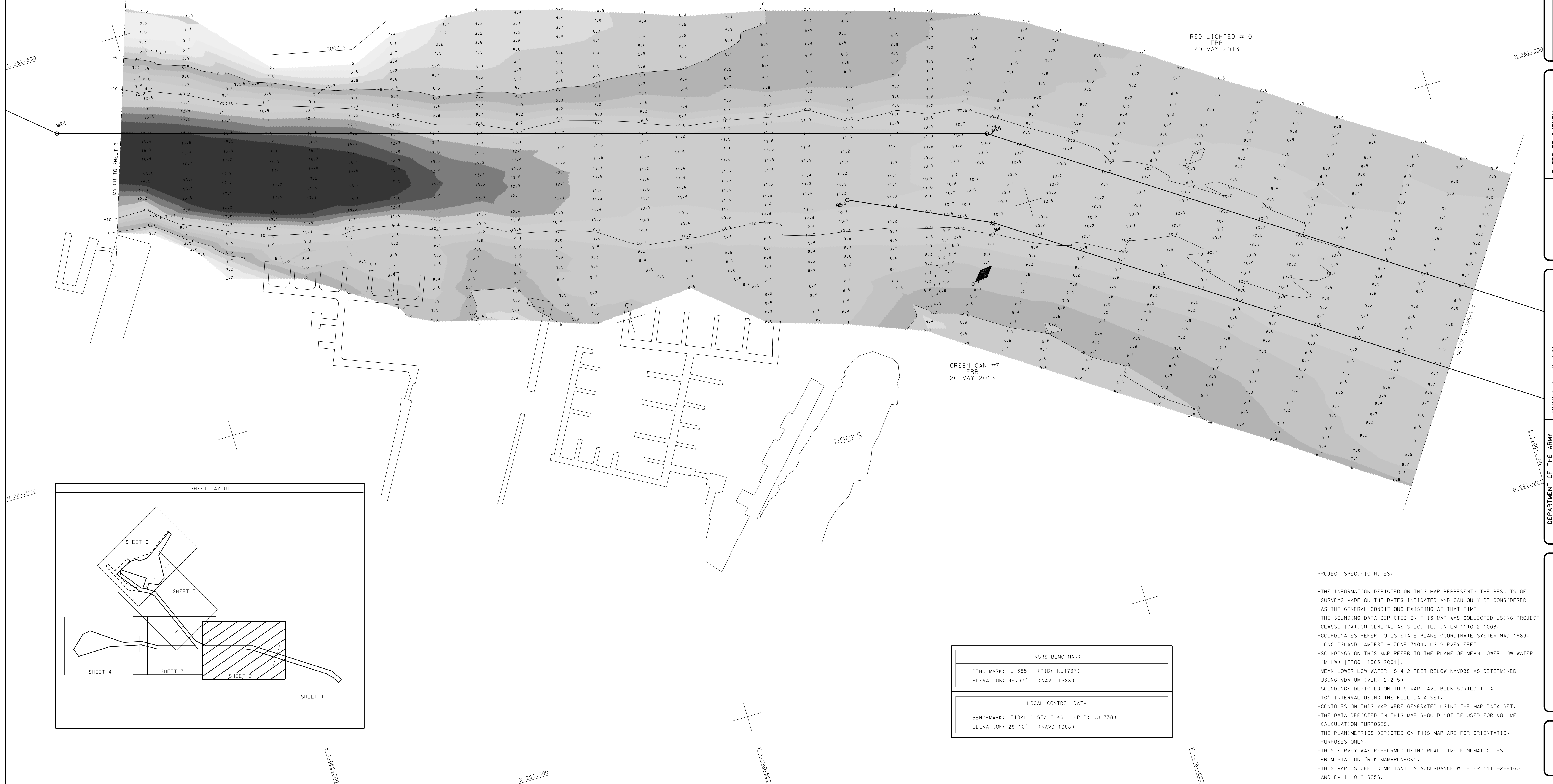
SHEET 01 OF 6

FILE NO: 45
REQ. NO: 3995N2





LONG ISLAND SOUND
MAMARONECK HARBOR



NSRS BENCHMARK	
BENCHMARK: L 385 (PID: KU1737)	
ELEVATION: 45.97' (NAVD 1988)	
LOCAL CONTROL DATA	
BENCHMARK: TIDAL 2 STA I 46 (PID: KU1738)	
ELEVATION: 28.16' (NAVD 1988)	

PROJECT SPECIFIC NOTES:

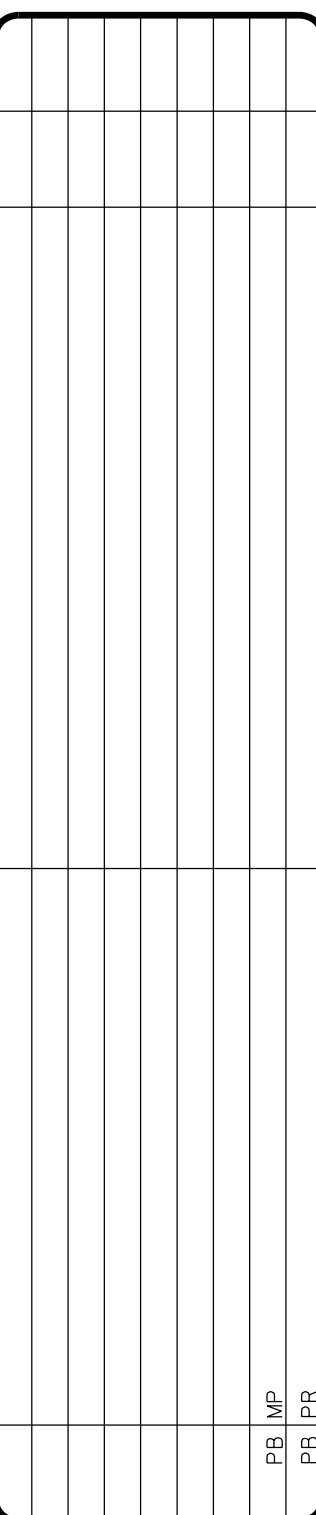
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL AS SPECIFIED IN EM 1110-2-1003.
- 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 4.2 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 2.2.51).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 10' INTERVAL USING THE FULL DATA SET.
- 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "RTK MAMARONECK".
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

DATES OF SURVEY:	
20-22 MAY 2013	
SCALE:	
ONE INCH = 50 FEET	
FIELD BOOKS:	
1000	

DEPARTMENT OF THE ARMY US ARMY CORPS OF ENGINEERS NEW YORK, NEW YORK 10278	
APPROVED: J. ABRAHAMSEN DATE: 20 MAY 2013	APPROVED: M. FORTI DATE: 20 MAY 2013
APPROVED: D. CLARKE DATE: 20 MAY 2013	APPROVED: J. MARZIE DATE: 20 MAY 2013
OPERATIONS DIVISION NEW YORK DISTRICT CENAN-OPS	

MAMARONECK HARBOR, NEW YORK
CONDITION SURVEY (POST SANDY)

VH-102
SHEET 02 OF 6



FILE NO.: 45
 SURVEY NO.: 905470

SCALE: ONE INCH = 1000 FEET

APPROVED: J. ABRAHAMSEN
FIELD ENGINEER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. BRAZ/F. POSTIGNON
DEPUTY CHIEF OF SUBSTATION

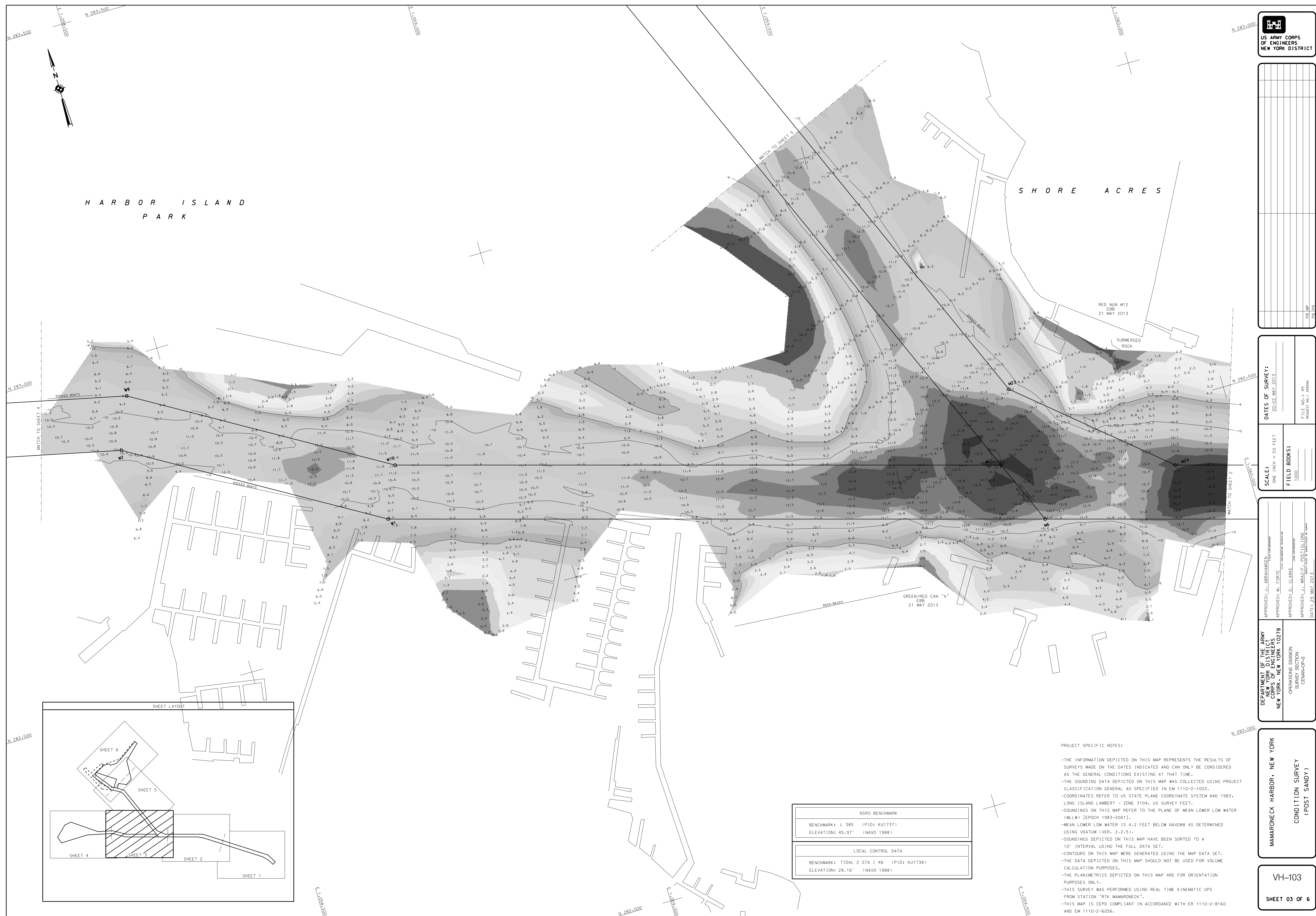
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

CONNECK HARBOR, NEW YORK
CONDITION SURVEY
(POST SANDY)

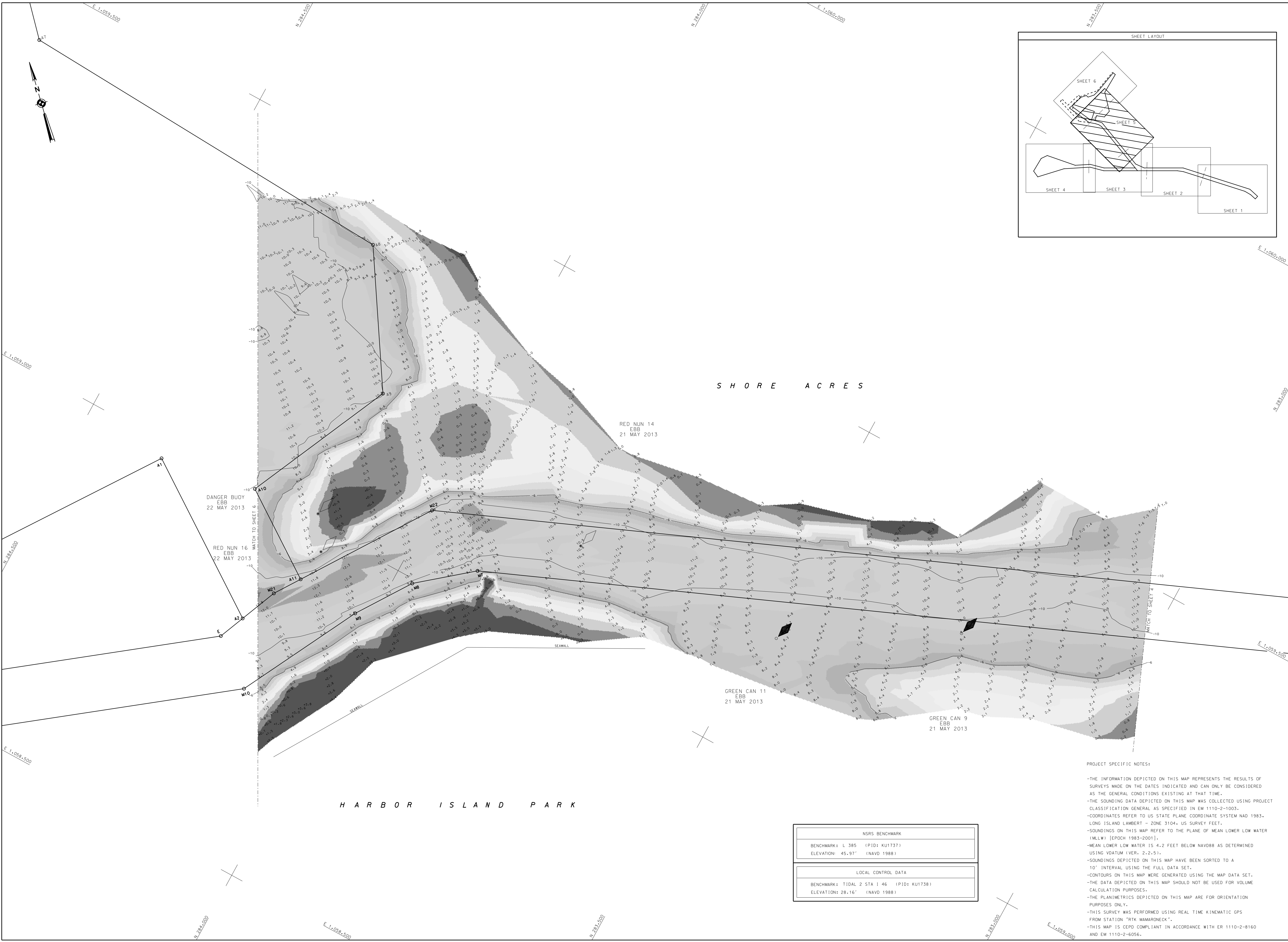
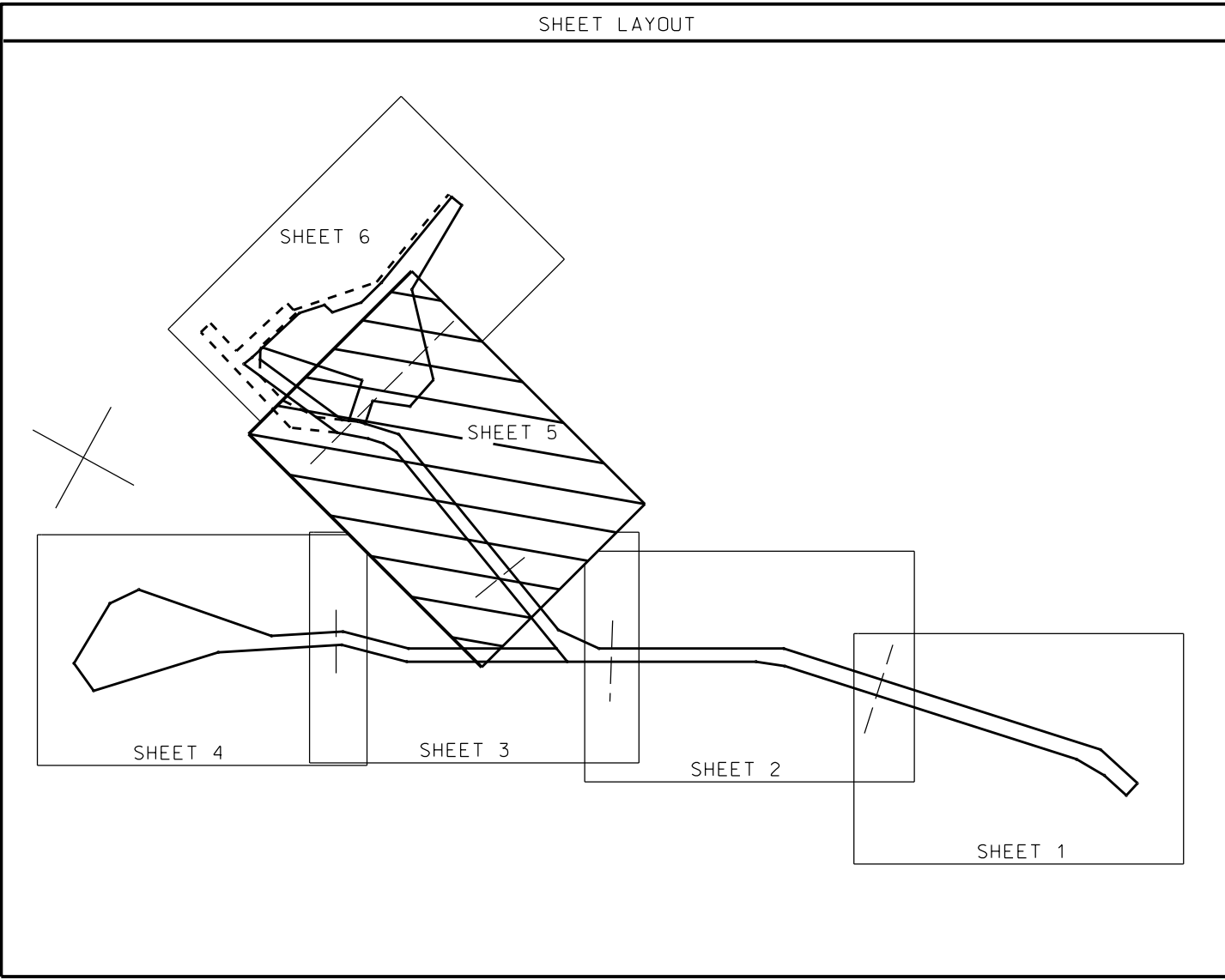
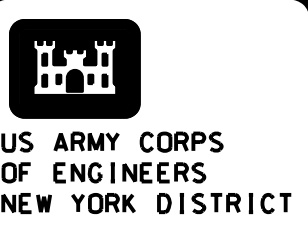
VH-103

SHEET 03 OF 1



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 BAY - ZONE 3104. US SURVEY FEET.
- SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) [EPOCH 1983-2011].
- MEAN LOWER LOW WATER IS 4-2 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER, 2,2,5).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 10' INTERVAL USING THE FULL DATA SET.
- 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.
- THE PLANNING DATA DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "RTK MAMARONECK".
- THIS MAP IS CIPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.



S H O R E A C R E S

H A R B O R I S L A N D P A R K

NSRS BENCHMARK	
BENCHMARK: L 385 (PID: KU1737)	
ELEVATION: 45.97' (NAVD 1988)	
LOCAL CONTROL DATA	
BENCHMARK: TIDAL 2 STA I 46 (PID: KU1738)	
ELEVATION: 28.16' (NAVD 1988)	

PROJECT SPECIFIC NOTES:

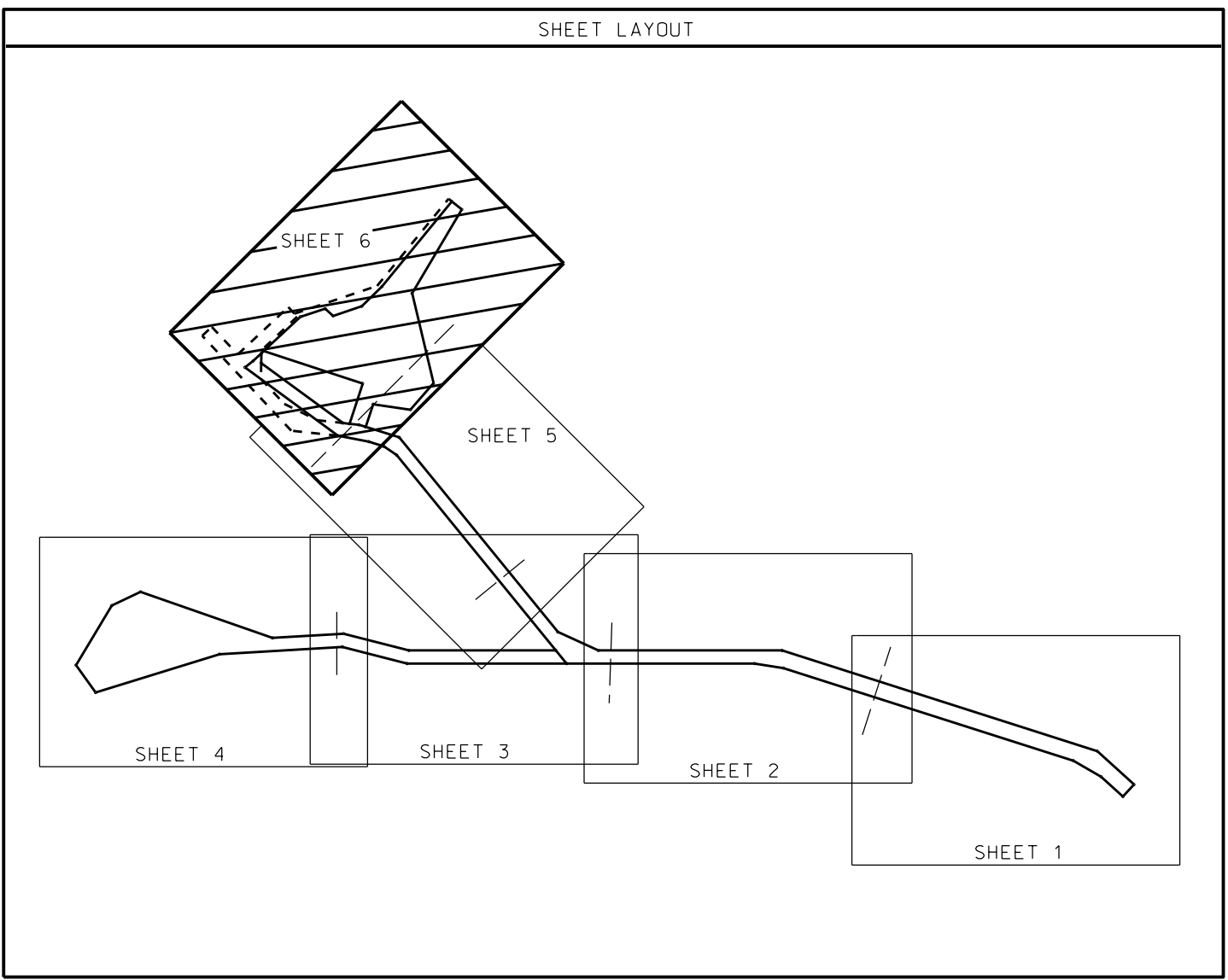
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
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- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "RTK MAMARONECK".
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

SCALE: ONE INCH = 50 FEET FIELD BOOKS: 1000	DATES OF SURVEY: 20-22 MAY 2013 FILE NO: 1 45 REQUEST NO: 1 9999Z

DEPARTMENT OF THE ARMY NEW YORK DISTRICT CORPS OF ENGINEERS NEW YORK 10278	APPROVED: J. ABRAHAMSEN DATE: 20 MAY 2013
	APPROVED: M. EDETE DATE: 20 MAY 2013
	APPROVED: D. CLARKE DATE: 20 MAY 2013
	APPROVED: J. WRAZEL DATE: 20 MAY 2013

MAMARONECK HARBOR - NEW YORK CONDITION SURVEY (POST SANDY)
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VH-105 SHEET 5 OF 6



NSRS BENCHMARK
BENCHMARK: L 385 (PID: KU1737)
ELEVATION: 45.97' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: TIDAL 2 STA 1 46 (PID: KU1738)
ELEVATION: 28.16' (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.
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- 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

FILE NO: 45
REQ. NO: 395542

DATE: 04 JUNE 2013
DATE: 04 JUNE 2013

APPROVED: J. BERGMAN
APPROVED: M. EDITE
APPROVED: D. CLERKE
APPROVED: J. MARZIT

DEPARTMENT OF THE ARMY
ENGINEERING DISTRICT
NEW YORK DISTRICT
NEW YORK 10278

OPERATIONS DIVISION
SUBDIVISION
GEN-OPS

MAMARONECK HARBOR, NEW YORK
CONDITION SURVEY
(POST SANDY)

VH-106
SHEET 6 OF 6