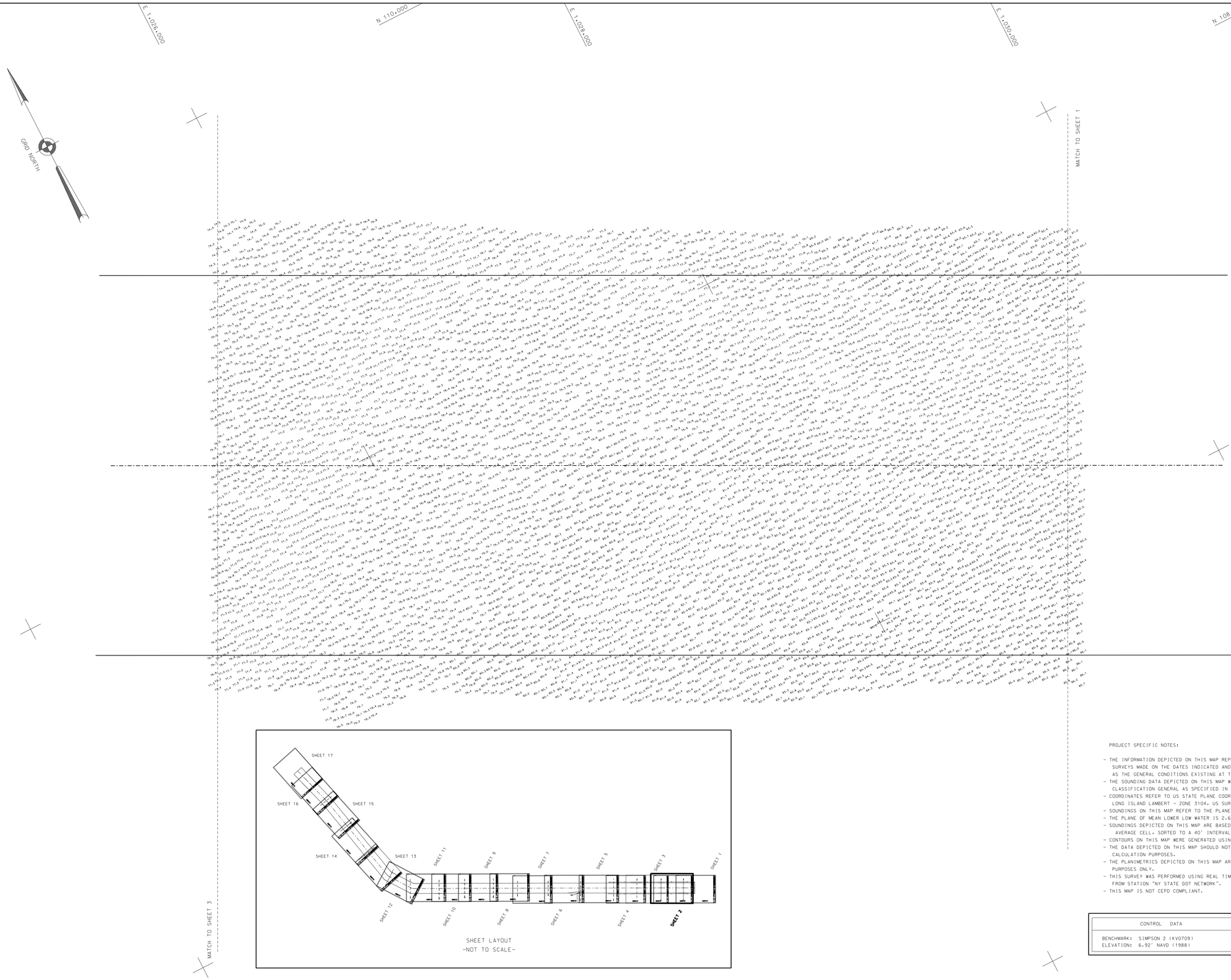
CORPS OF ENGINEERS

U. S. ARMY



SHEET LAYOUT
-NOT TO SCALE-

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.
- THE PLANE OF MEAN LOWER LOW WATER IS 2.69-2.79 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL, SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION 'NY STATE DOT NETWORK'.
- THIS MAP IS NOT CEPD COMPLIANT.

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

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

DC FPR
DLS MP

DATES OF SURVEY:
16-18,21-23,25-29 MARCH 2013
1-5,24, 26-27 APRIL 2013

FILE NO: 1 139
REQUEST NO: 1 3961-10

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

APPROVED: D. SMITH — FIELD SURVEILLANCE
APPROVED: M. FORTE — CHIEF, HYDROGRAPHIC TECHNICIAN
APPROVED: D. CLARKE — LEAD SURVEILLANCE
APPROVED: J. MRAZ — CHIEF, CHIEF OF SURVEY
DATE: 24 DECEMBER 2013

NEW YORK HARBOR
AMBROSE CHANNEL (MLLW)

STATUS SURVEY
(POST SANDY)

VH-102

SHEET 2 OF 17

139
3961-1D

E 1,022,000 | N 112,000 | E 1,024,000 | E 1,026,000 | N 110,000

GRID NORTH

MATCH TO SHEET 2

N 112,000

E 1,020,000

N 108,000

E 1,026,000

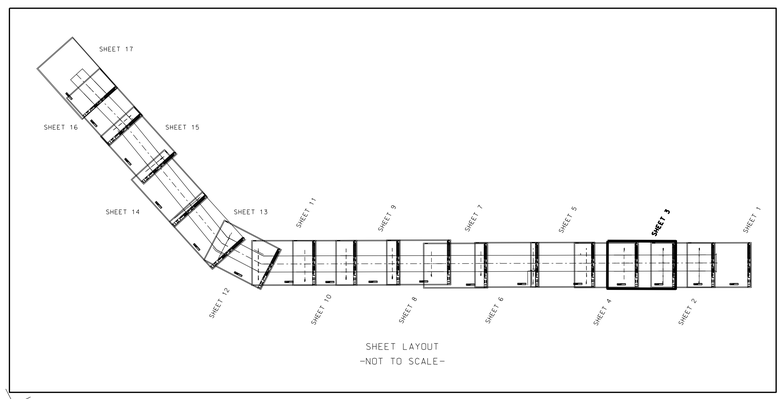
N 110,000

N 106,000

MATCH TO SHEET 4

E 1,020,000 | E 1,022,000 | N 106,000 | E 1,024,000

SHEET LAYOUT
-NOT TO SCALE-



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.
- THE PLANE OF MEAN LOWER LOW WATER IS 2.69-2.79 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL. SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DC PRR
DC MP

DATES OF SURVEY:
16-18,21-23,25-28 MARCH 2013
1-5,24, 26-27 APRIL 2013

FILE NO.: 139
REQUEST NO.: 3961-10

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

APPROVED: D. SMITH — FIELD SURVEILLANCE
APPROVED: M. FORTE — CHIEF, ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — LEAD SURVEILLANCE
APPROVED: J. MRAZ — SURVEY CHIEF OF PARTY
DATE: 24 DECEMBER 2013

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
AMBROSE CHANNEL (MLLW)

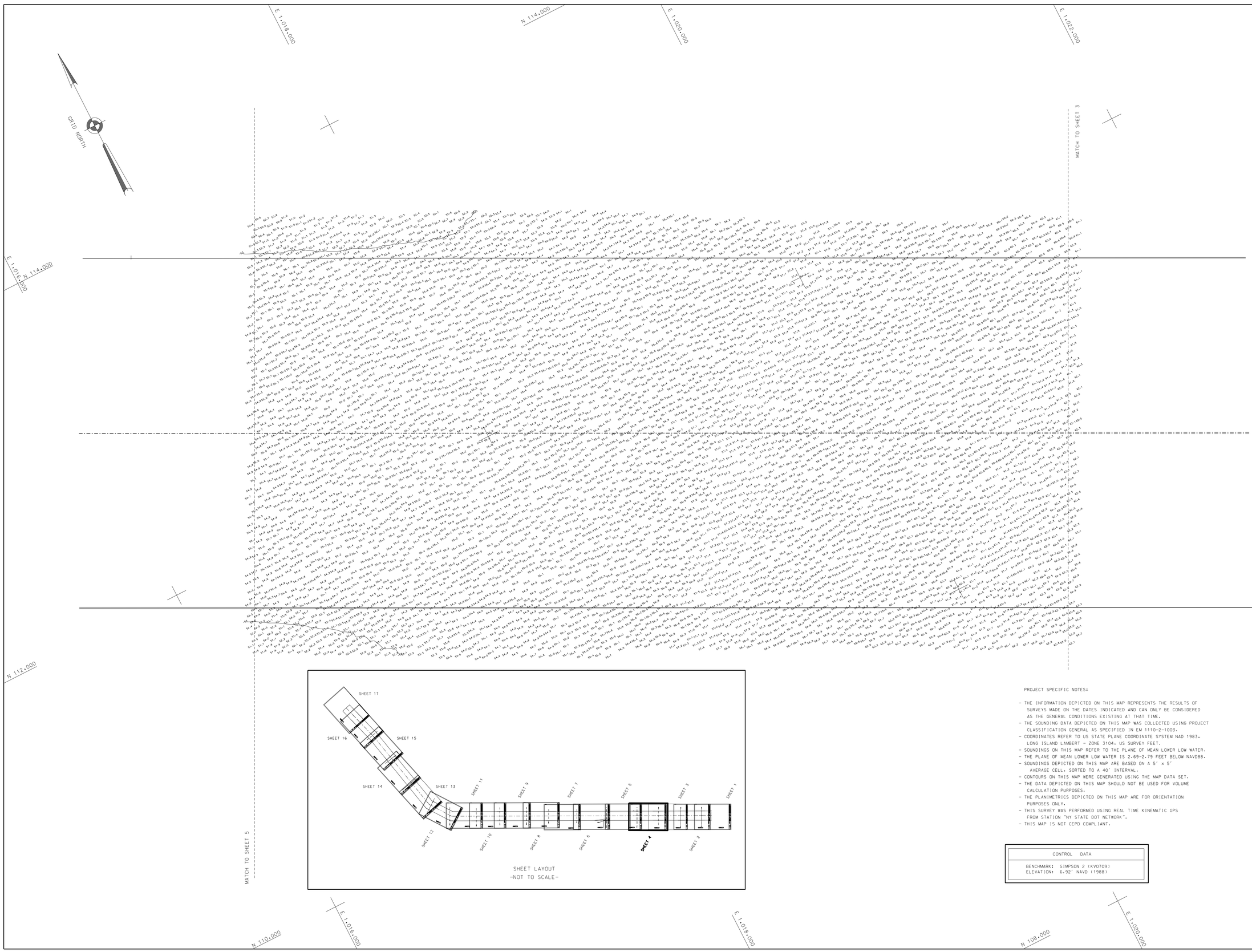
STATUS SURVEY
(POST SANDY)

VH-103

SHEET 3 OF 17

CORPS OF ENGINEERS

U. S. ARMY



SHEET LAYOUT
-NOT TO SCALE-

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.
- THE PLANE OF MEAN LOWER LOW WATER IS 2.69-2.79 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL. SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

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

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

DC FR
DC MP

SCALE:
ONE INCH = 200 FEET

DATES OF SURVEY:
16-18,22-25 MARCH 2013
1-5,8-12, 26-27 APRIL 2013

FIELD BOOKS:

FILE NO.: 139
REQUEST NO.: 3961-10

APPROVED: D. SMITH — FIELD SURVEILLANCE
APPROVED: M. FORTE — CHIEF, ENGINEERING SECTION
APPROVED: D. CLARKE — CHIEF SURVEILLANCE
APPROVED: J. MRAZ — CHIEF, DIVISION OF SURVEY
DATE: 24 DECEMBER 2013

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

NEW YORK HARBOR
AMBROSE CHANNEL (MLLW)

STATUS SURVEY
(POST SANDY)

VH-104

SHEET 4 OF 17

139
3961-10

CORPS OF ENGINEERS

U. S. ARMY

E 1,012,000

E 1,014,000

N 116,000

E 1,016,000

E 1,018,000

GRID NORTH

N 114,000

E 1,018,000

N 116,000

MATCH TO SHEET 4

N 112,000

E 1,010,000

N 114,000

SHEET 17

SHEET 16

SHEET 15

SHEET 14

SHEET 13

SHEET 11

SHEET 9

SHEET 7

SHEET 5

SHEET 3

SHEET 1

SHEET 12

SHEET 10

SHEET 8

SHEET 6

SHEET 4

SHEET 2

SHEET LAYOUT
-NOT TO SCALE-

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.
- THE PLANE OF MEAN LOWER LOW WATER IS 2.69-2.79 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL. SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

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

E 1,010,000

N 112,000

E 1,012,000

N 112,000

E 1,014,000

N 110,000

E 1,016,000

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

DC PR
DC MP

DATES OF SURVEY:
16,18,21-23,25-29 MARCH 2013
1-5,24, 26-27 APRIL 2013

SCALE:
ONE INCH = 200 FEET

FILE NO.: 139
PROJECT NO.: 3961-10

FIELD BOOKS:

APPROVED: D. SMITH — FIELD SURVEILLANCE
APPROVED: M. FORTE — CIVIL, MECHANICAL TECHNICIAN
APPROVED: D. CLARKE — LEAD CARTOGRAPHER
APPROVED: J. VIRAZ — BRANCH CHIEF OF SURVEY
DATE: 24 DECEMBER 2013

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

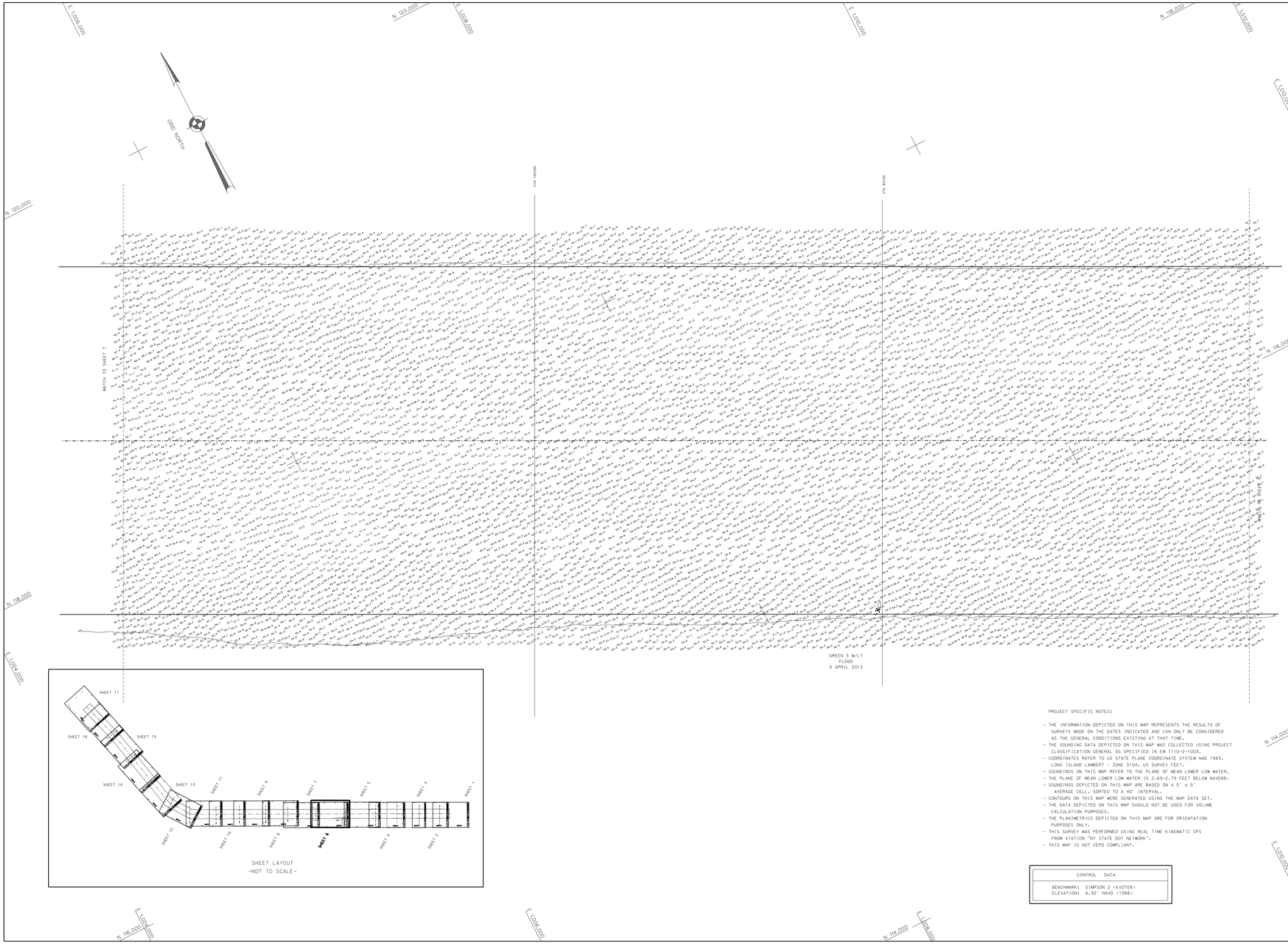
NEW YORK HARBOR
AMBROSE CHANNEL (MLLW)

STATUS SURVEY
(POST SANDY)

VH-105

SHEET 5 OF 17

139
3961-10



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.
- THE PLANE OF MEAN LOWER LOW WATER IS 2.69-2.79 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL. SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DC	PR
DC	MP

DATES OF SURVEY:
16,18,21-23,25-29 MARCH 2013
1-5,24, 26-27 APRIL 2013

FILE NO.: 139
REQUEST NO.: 3961-1D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 24 DECEMBER 2013

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
AMBROSE CHANNEL (MLLW)

STATUS SURVEY
(POST SANDY)

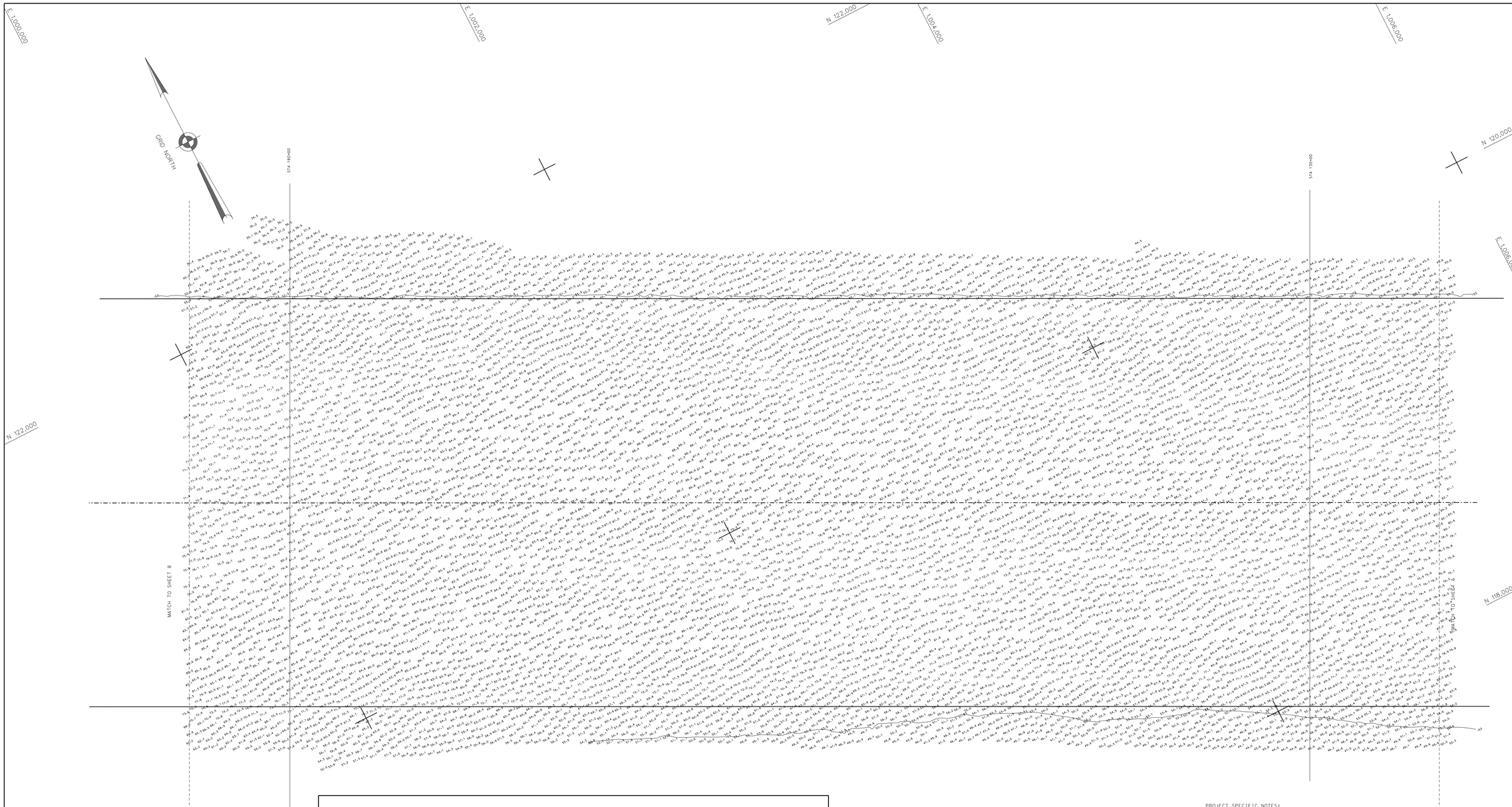
VH-106

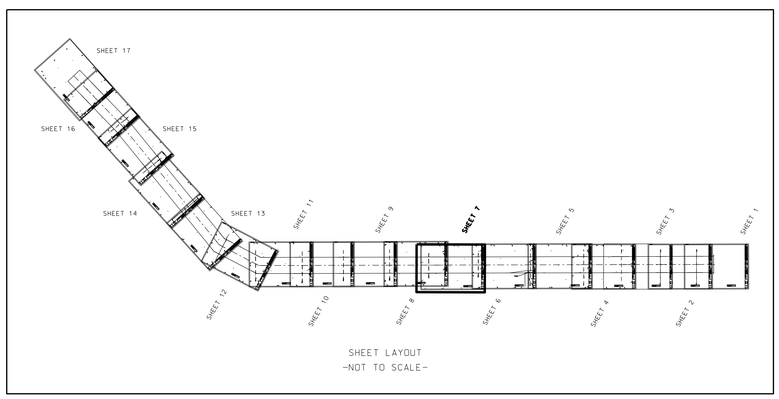
SHEET 6 OF 17

139
3961-1D

CORPS OF ENGINEERS

U. S. ARMY





SHEET LAYOUT
-NOT TO SCALE-

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.
- THE PLANE OF MEAN LOWER LOW WATER IS 2.69-2.79 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL. SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DC PR
DC MP

DATES OF SURVEY:
16,18,21-23,25-29 MARCH 2013
1-5,24, 26-27 APRIL 2013

FILE NO.:
REQUEST NO.: 3961-10

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 24 DECEMBER 2013

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

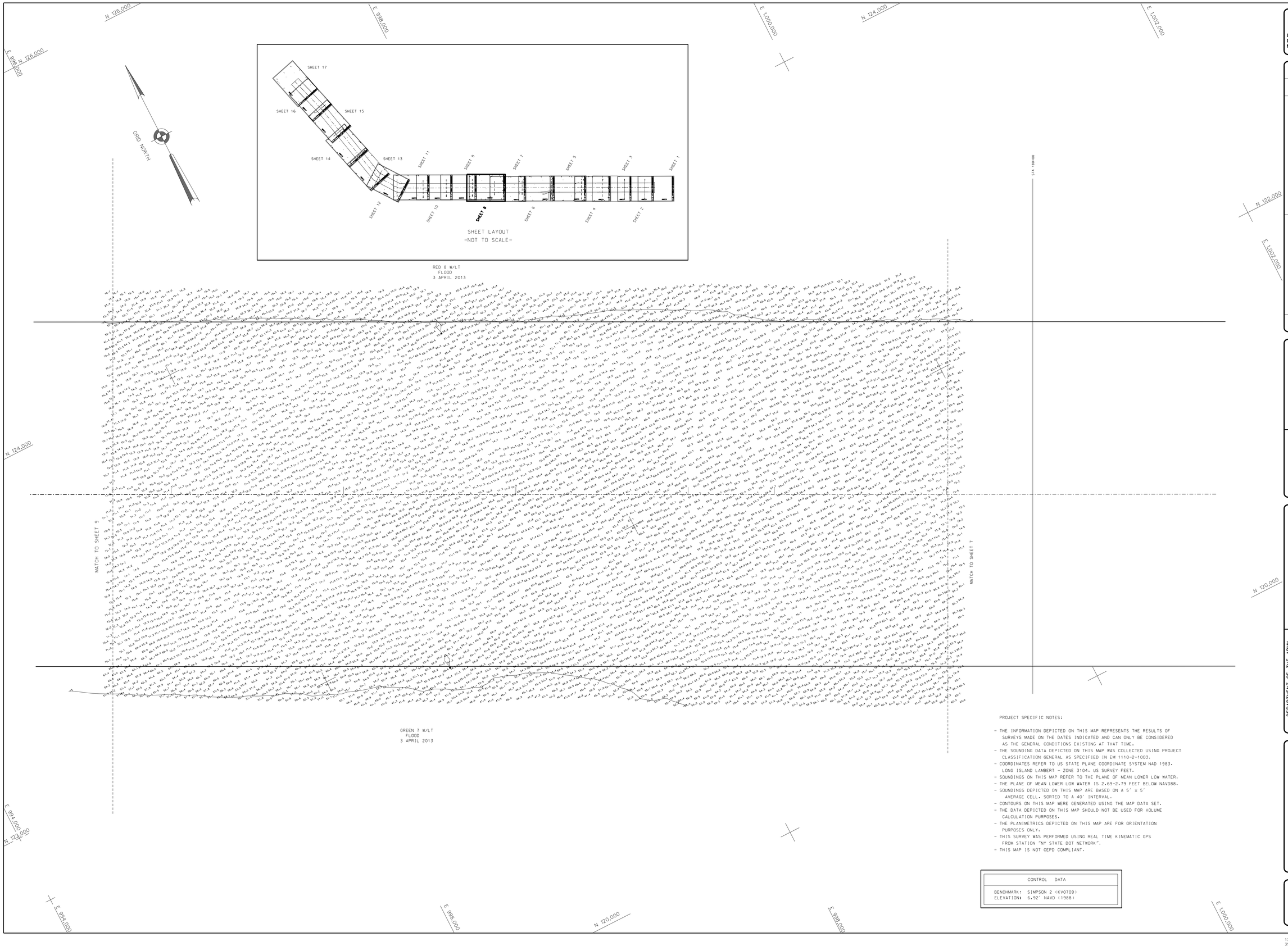
NEW YORK HARBOR
AMBROSE CHANNEL (MLLW)

STATUS SURVEY
(POST SANDY)

VH-107

SHEET 7 OF 17

139
3961-10



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.
- THE PLANE OF MEAN LOWER LOW WATER IS 2.69-2.79 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL. SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DC PR
DC MP

DATES OF SURVEY:
16,18,21-23,25-29 MARCH 2013
1-5,24, 26-27 APRIL 2013

FILE NO.: 139
REQUEST NO.: 3961-1D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 24 DECEMBER 2013

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
AMBROSE CHANNEL (MLLW)

STATUS SURVEY
(POST SANDY)

VH-108

SHEET 8 OF 17

139
3961-1D

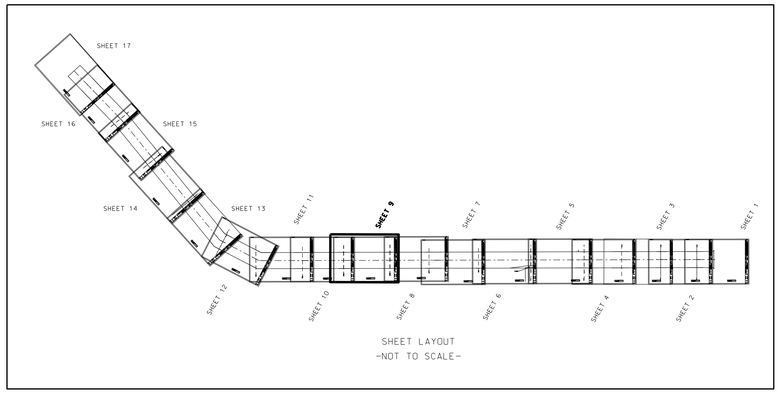
CORPS OF ENGINEERS

E 992,000 N 128,000 E 994,000 E 996,000 N 126,000

GRID NORTH

SEE SHEET 10

E 990,000 N 128,000



SHEET LAYOUT
-NOT TO SCALE-

RED 10 W/LT
EBB
29 MARCH 2013

MATCH TO SHEET 10

MATCH TO SHEET 8

GREEN 9 W/LT
EBB
29 MARCH 2013

N 126,000

N 124,000 E 996,000

N 122,000

E 990,000 E 992,000 N 122,000 E 994,000

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.
- THE PLANE OF MEAN LOWER LOW WATER IS 2.69-2.79 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL, SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

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

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

DC PR
DC MP

SCALE: ONE INCH = 200 FEET

FIELD BOOKS:

DATES OF SURVEY:
16-18,21-23,25-29 MARCH 2013
1-5,24-26,27 APRIL 2013

FILE NO.: 139
PROJECT NO.: 3961-10

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

APPROVED: D. SMITH (CHIEF OF OPERATIONS)
APPROVED: M. FORTE (CHIEF, ENGINEERING SECTION)
APPROVED: D. CLARKE (CHIEF OF SURVEY)
APPROVED: J. MRAZ (DEPUTY CHIEF OF SURVEY)
DATE: 24 DECEMBER 2013

NEW YORK HARBOR
AMBROSE CHANNEL (MLLW)

STATUS SURVEY
(POST SANDY)

VH-109

SHEET 9 OF 17

139
3961-10

E 986,000

E 988,000

N 130,000

E 990,000

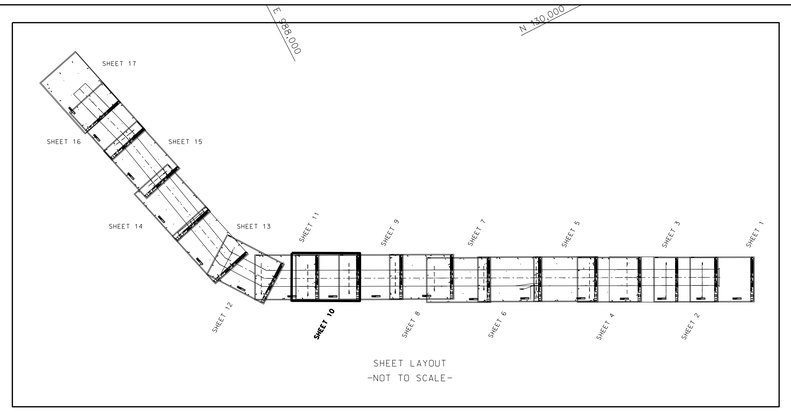
E 992,000

N 128,000

N 126,000

N 124,000

E 984,000



SHEET LAYOUT
-NOT TO SCALE-

GRID NORTH

RED 12 W/LT
SLACK
28 MARCH 2013

STA 300+00

STA 236+00

MATCH TO SHEET 11

MATCH TO SHEET 09

GREEN 11 W/LT
EBB
28 MARCH 2013

CONTROL DATA

BENCHMARK: SIMPSON 2 (KV0709)
ELEVATION: 6.92' 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.
- THE PLANE OF MEAN LOWER LOW WATER IS 2.69-2.79 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL, SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

DC PR
DC MP

DATES OF SURVEY:
16,18,21-23,25-29 MARCH 2013
1-5,24, 26-27 APRIL 2013

FILE NO.: 139
PROJECT NO: 3961-10

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

APPROVED: D. SMITH — FIELD SURVEYOR
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — CHIEF SURVEYOR
APPROVED: J. MRAZ — BRANCH CHIEF OF SURVEY
DATE: 24 DECEMBER 2013

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
AMBROSE CHANNEL (MLLW)

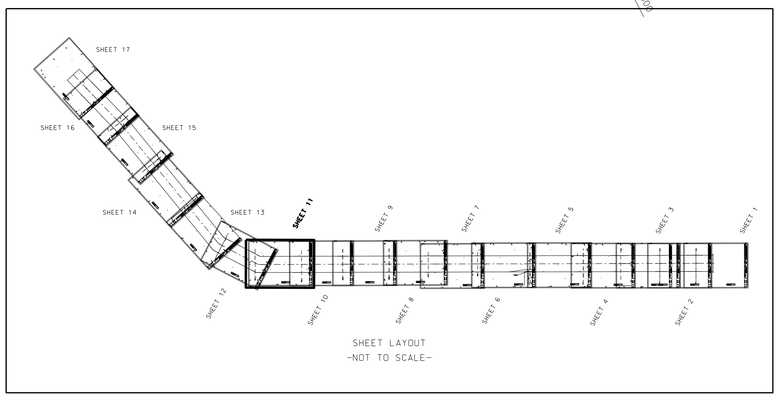
STATUS SURVEY
(POST SANDY)

VH-110

SHEET 10 OF 17

CORPS OF ENGINEERS

U. S. ARMY



SHEET LAYOUT
-NOT TO SCALE-

E 982,000

E 984,000

N 132,000

E 986,000

N 130,000

GRID NORTH

RED 14 W/LT
EBB
27 MARCH 2013

RED 12 W/LT
SLACK
28 MARCH 2013

N 132,000

E 980,000

N 130,000

MATCH TO SHEET 12

MATCH TO SHEET 10

E 986,000

N 128,000

GREEN CAN #13
EBB
28 MARCH 2013

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.
- THE PLANE OF MEAN LOWER LOW WATER IS 2.69-2.79 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL, SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

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

E 980,000

N 128,000

E 982,000

E 984,000

N 126,000

E 986,000

N 126,000

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

DC
DR
DC

DATES OF SURVEY:
16-18,21-23,25-29 MARCH 2013
1-5,24, 26-27 APRIL 2013

FILE NO.: 139
REQUEST NO.: 3961-10

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

APPROVED: D. SMITH — FIELD SURVEILLANCE
APPROVED: M. FORTE — FIELD ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — CHIEF SURVEILLANCE
APPROVED: J. WRAZ — CHIEF OF SURVEY
DATE: 24 DECEMBER 2013

NEW YORK HARBOR
AMBROSE CHANNEL (MLLW)

STATUS SURVEY
(POST SANDY)

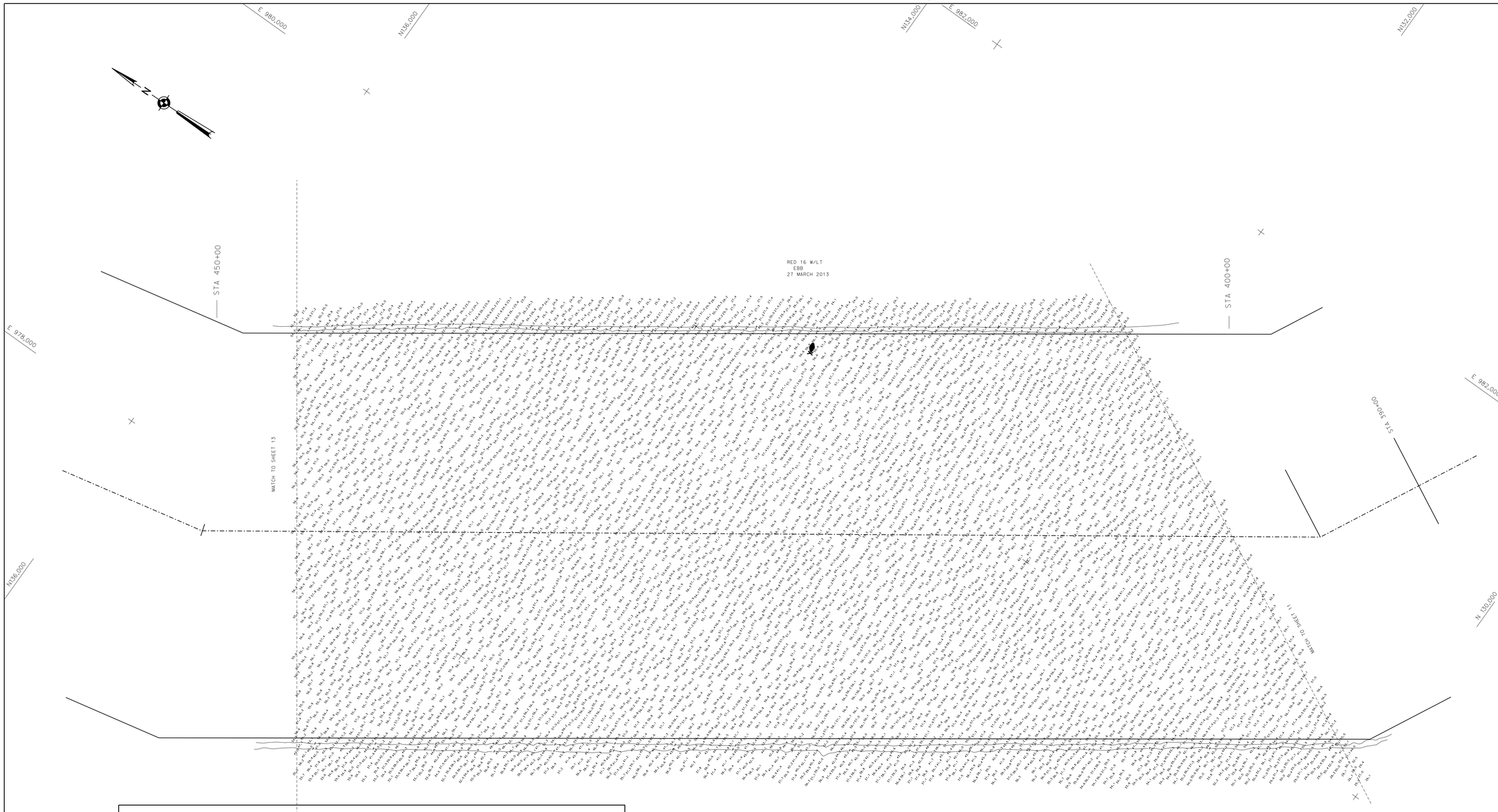
VH-111

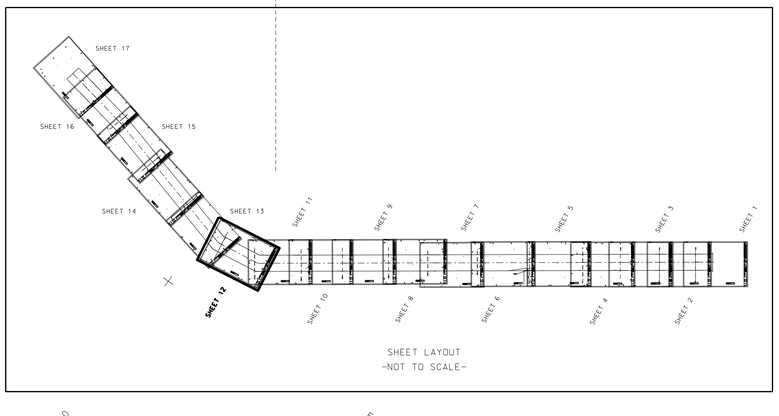
SHEET 11 OF 17

139
3961-10

CORPS OF ENGINEERS

U. S. ARMY





SHEET LAYOUT
-NOT TO SCALE-

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 C.O.E. MEAN LOW WATER.
- THE PLANE OF C.O.E. MEAN LOW WATER IS 3.5 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL, SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

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

3961-PROJECT METADATA

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DC PR
DC MP

DATES OF SURVEY:
16,18,21-23,25-29 MARCH 2013
1-5,24, 26-27 APRIL 2013

FILE NO.: 139
REQUEST NO.: 3961D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — LEAD CARTOGRAPHER
APPROVED: J. MRAZ/F. POSTIGLIONE — DEPUTY CHIEF OF SURVEYS/CHIEF OF SURVEY
DATE: 14 MAY 2013

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

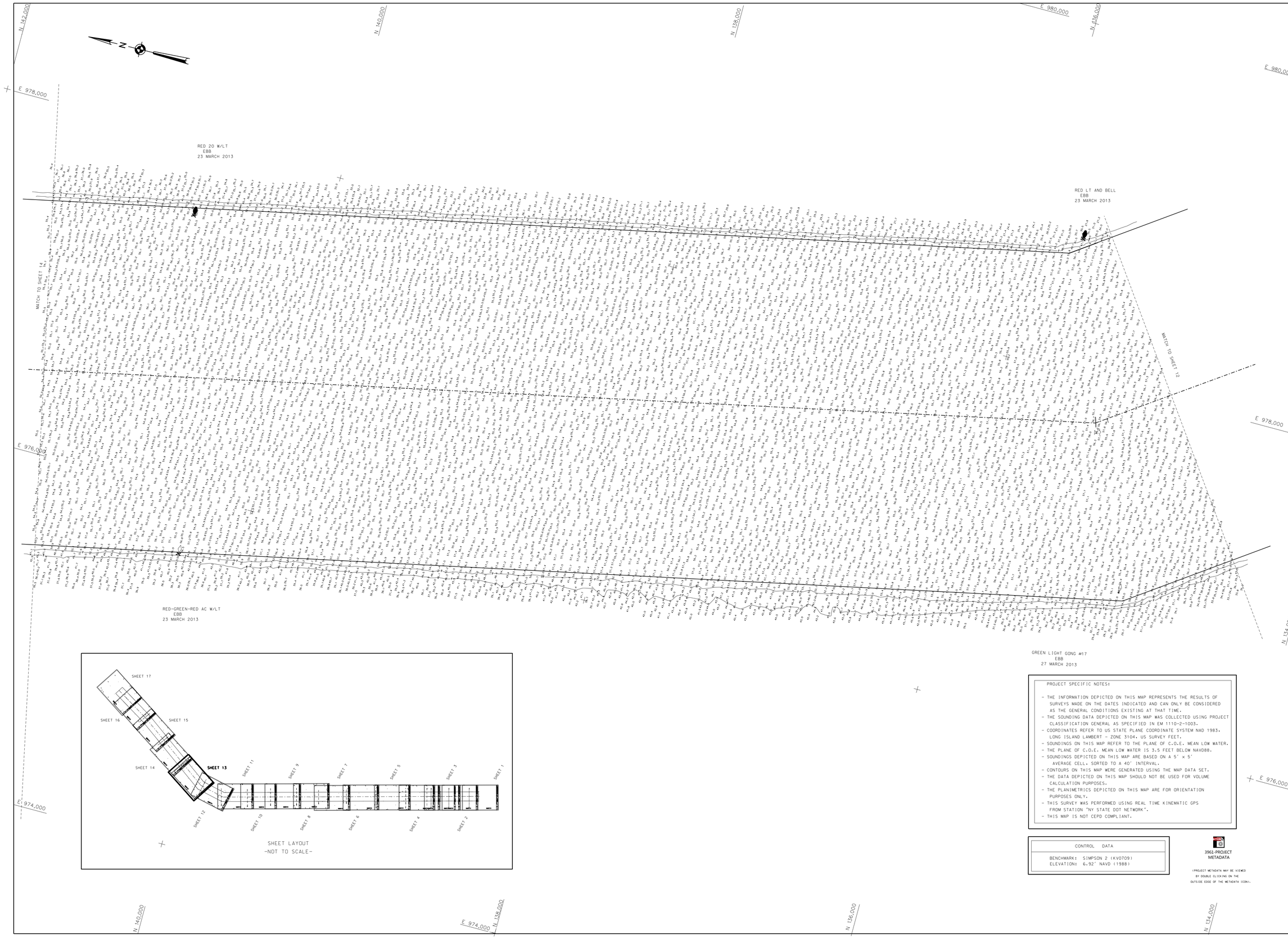
NEW YORK HARBOR
AMBROSE CHANNEL

STATUS SURVEY
(POST SANDY)

VH-112

SHEET 12 OF 17

139
3961D



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 C.O.E. MEAN LOW WATER.
- THE PLANE OF C.O.E. MEAN LOW WATER IS 3.5 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL. SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

CONTROL DATA

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

3961-PROJECT METADATA

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DC PR
DC MP

DATES OF SURVEY:
16-18.21-23.25-29 MARCH 2013
1-5.24. 26-27 APRIL 2013

FILE NO.: 139
REQUEST NO.: 3961D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — LEAD CARTOGRAPHER
APPROVED: J. MRAZ/F. POSTIGLIONE — DEPUTY CHIEF OF SURVEY/CHIEF OF SURVEY
DATE: 14 MAY 2013

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

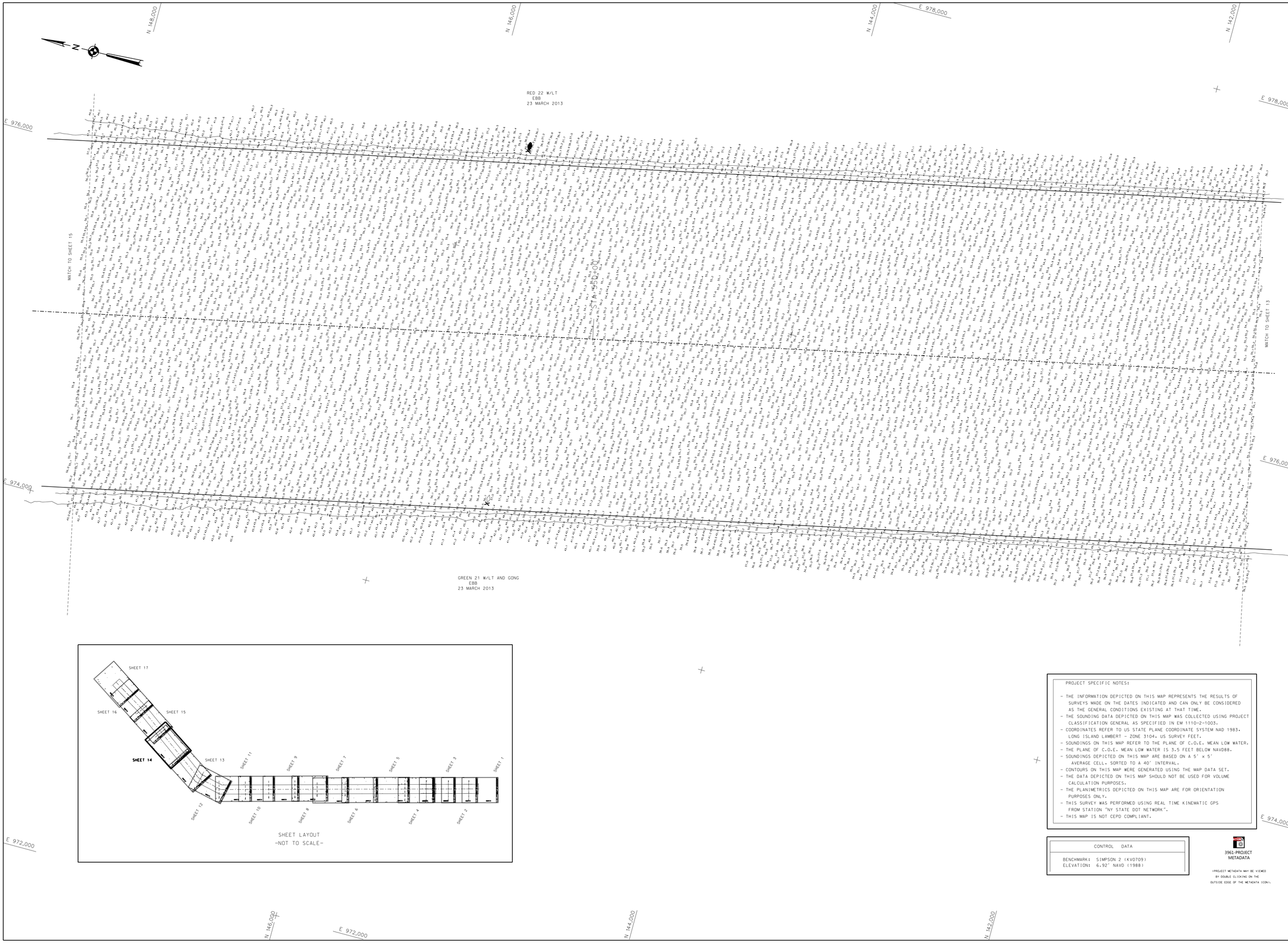
NEW YORK HARBOR
AMBROSE CHANNEL

STATUS SURVEY
(POST SANDY)

VH-113

SHEET 13 OF 17

139
3961D



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 C.O.E. MEAN LOW WATER.
- THE PLANE OF C.O.E. MEAN LOW WATER IS 3.5 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL. SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

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

3961-PROJECT METADATA

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

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DC PR
DC MP

DATES OF SURVEY:
16,18,21-23,25-29 MARCH 2013
1-5,24, 26-27 APRIL 2013

FILE NO.: 139
REQUEST NO.: 3961D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — LEAD CARTOGRAPHER
APPROVED: J. MRAZ/F. POSTIGLIONE — DEPUTY CHIEF OF SURVEY/CHIEF OF SURVEY
DATE: 14 MAY 2013

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
AMBROSE CHANNEL

STATUS SURVEY
(POST SANDY)

VH-114

SHEET 14 OF 17

139
3961D

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 C.O.E. MEAN LOW WATER.
- THE PLANE OF C.O.E. MEAN LOW WATER IS 3.5 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL, SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

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

3961-PROJECT METADATA

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DC PR
DC MP

DATES OF SURVEY:
16,18,21-23,25-29 MARCH 2013
1-5,24, 26-27 APRIL 2013

FILE NO.: 1396
REQUEST NO.: 39610

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — LEAD CARTOGRAPHER
APPROVED: J. MRAZ/F. POSTIGLIONE — DEPUTY CHIEF OF SURVEYCHIEF OF SURVEY
DATE: 14 MAY 2013

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
AMBROSE CHANNEL

STATUS SURVEY
(POST SANDY)

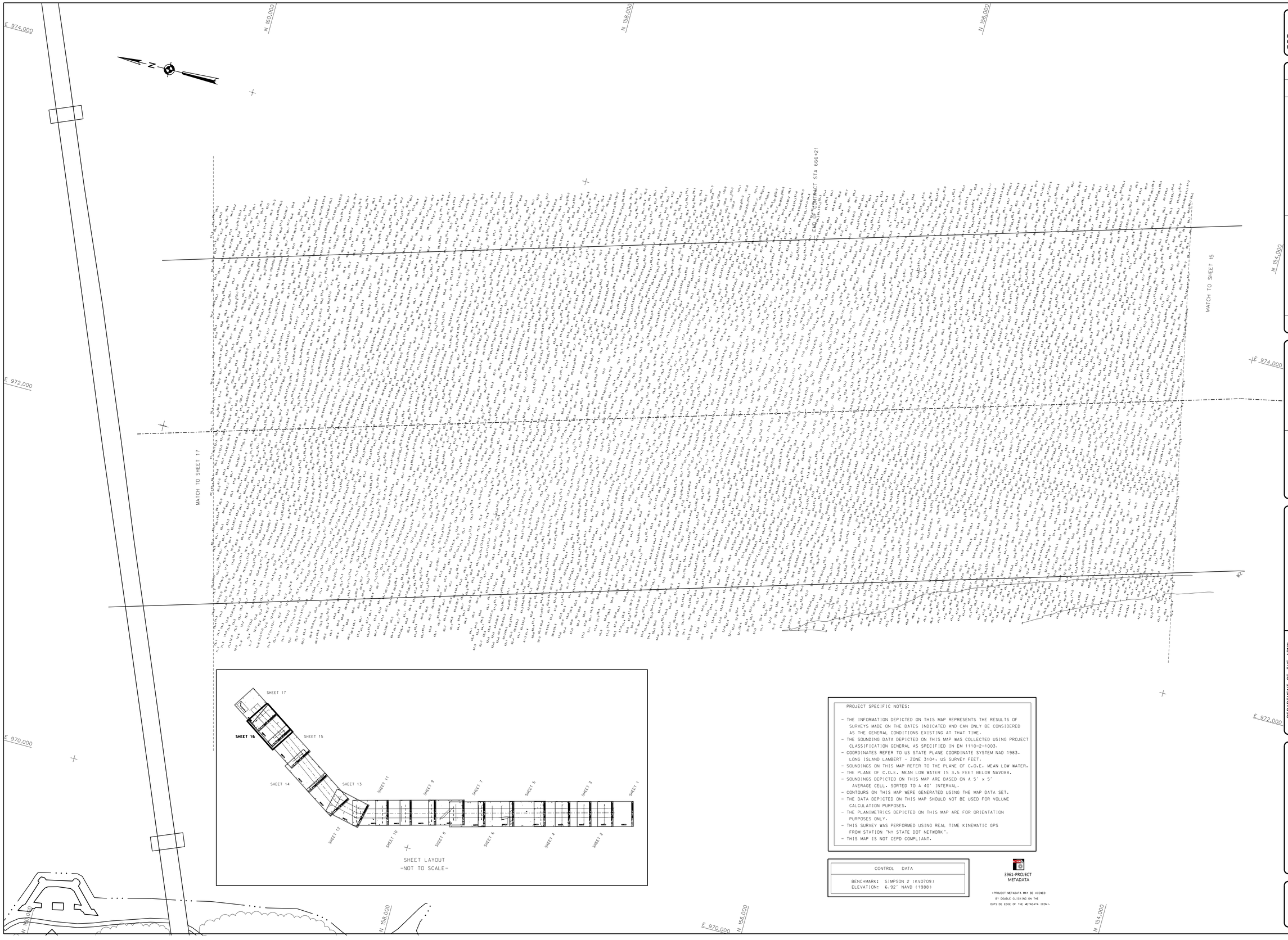
VH-115

SHEET 15 OF 17

139
39610

CORPS OF ENGINEERS

U. S. ARMY



SHEET LAYOUT
-NOT TO SCALE-

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 C.O.E. MEAN LOW WATER.
- THE PLANE OF C.O.E. MEAN LOW WATER IS 3.5 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL, SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

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

3961-PROJECT METADATA

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DC PR
DC MP

DATES OF SURVEY:
16,18,21-23,25-29 MARCH 2013
1-5,24, 26-27 APRIL 2013

FILE NO.: 139
REQUEST NO.: 3961D

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — LEAD CARTOGRAPHER
APPROVED: J. MRAZ/F. POSTIGLIONE — DEPUTY CHIEF OF MAINTENANCE OF SURVEY
DATE: 14 MAY 2013

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
AMBROSE CHANNEL

STATUS SURVEY
(POST SANDY)

VH-116

SHEET 16 OF 17

139
3961D

N 164.000

N 162.000

E 974.000

N 160.000

E 972.000

E 970.000

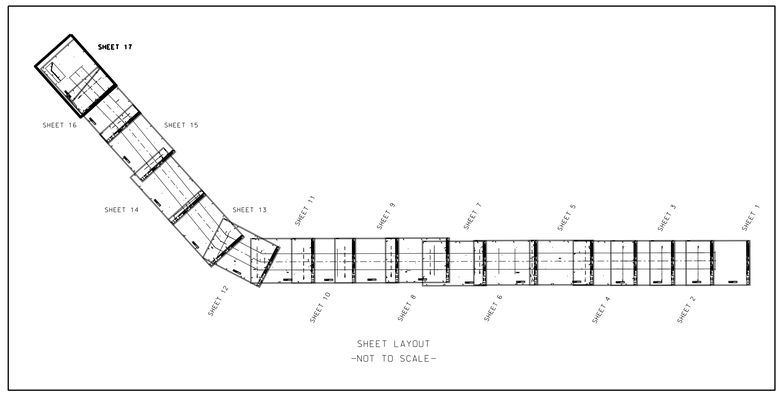
E 968.000

N 164.000

N 162.000

N 160.000

N 158.000



SHEET LAYOUT
-NOT TO SCALE-

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 C.O.E. MEAN LOW WATER.
- THE PLANE OF C.O.E. MEAN LOW WATER IS 3.5 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 5' x 5' AVERAGE CELL, SORTED TO A 40' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NY STATE DOT NETWORK".
- THIS MAP IS NOT CEPD COMPLIANT.

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

3961-PROJECT METADATA

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

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DC PPR
DC VAP

DATES OF SURVEY:
16,18,21-23,25-29 MARCH 2013
1-5,24, 26-27 APRIL 2013

FILE NO.: 139
REQUEST NO.: 39610

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:

APPROVED: D. SMITH FIELD SURVEYOR(S)
APPROVED: M. FORTE CHIEF, ENGINEERING TECHNICIAN
APPROVED: D. CLARKE CHIEF SURVEYOR(S)
APPROVED: J. MRAZEK, POSITIVE ONE SURVEY MANAGER OR SUPERVISORY ACCEPTANCE
DATE: 2 MAY 2013

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
AMBROSE CHANNEL

STATUS SURVEY
(POST SANDY)

VH-117

SHEET 17 OF 17