LOCAL CONTROL DATA	
BENCHMARK:	AJD10034
ELEVATION:	8.63' NAVD 1988

NSRS BENCHMARK	
BENCHMARK:	NB25D
ELEVATION:	8.40' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983)

SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER

THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988.

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL, AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP REPRESENTS THE SOUNDINGS CLOSEST TO CELL CENTER OF A 15' CELL USING THE COMPLETE DATA SET.

"THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY."

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION PE03.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
4,7,10,14,15,17,22
23,29, 30 MAY &
4-5 JUN 2012

FILE NO.: 930
REQUEST NO.: 3831D/N3/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14288

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — ASST. CHIEF OF SURVEYS
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 14 JUN 2012

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

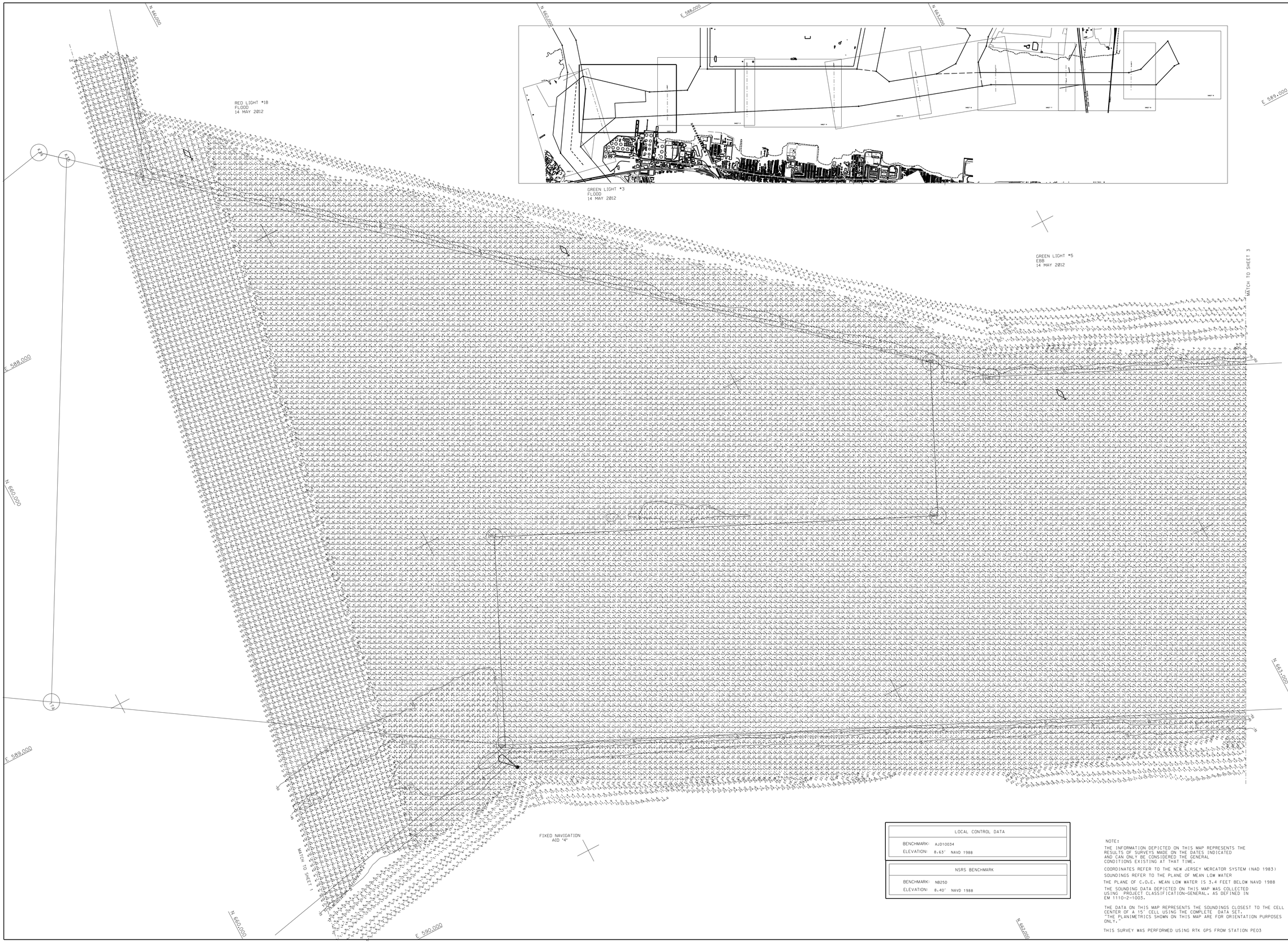
NEWARK BAY, HACKENSACK & PASSAIC RIVERS, NEW JERSEY

NEWARK BAY MAIN CHANNEL

CONDITION SURVEY

VH-101

SHEET 1 OF 9



LOCAL CONTROL DATA	
BENCHMARK:	AJD10034
ELEVATION:	8.63' NAVD 1988

NSRS BENCHMARK	
BENCHMARK:	NB25D
ELEVATION:	8.40' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983)

SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER

THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL, AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP REPRESENTS THE SOUNDINGS CLOSEST TO THE CELL CENTER OF A 15' CELL USING THE COMPLETE DATA SET. "THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY."

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION PE03

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
23-29, 30 MAY &
4-5 JUN 2012

FILE NO.: 930
REQUEST NO.: 3831D/N3/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14288

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — ASST. CHIEF OF SURVEYS
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 14 JUN 2012

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-HS

NEWARK BAY, HACKENSACK &
PASSAIC RIVERS,
NEW JERSEY

NEWARK BAY MAIN CHANNEL

CONDITION SURVEY

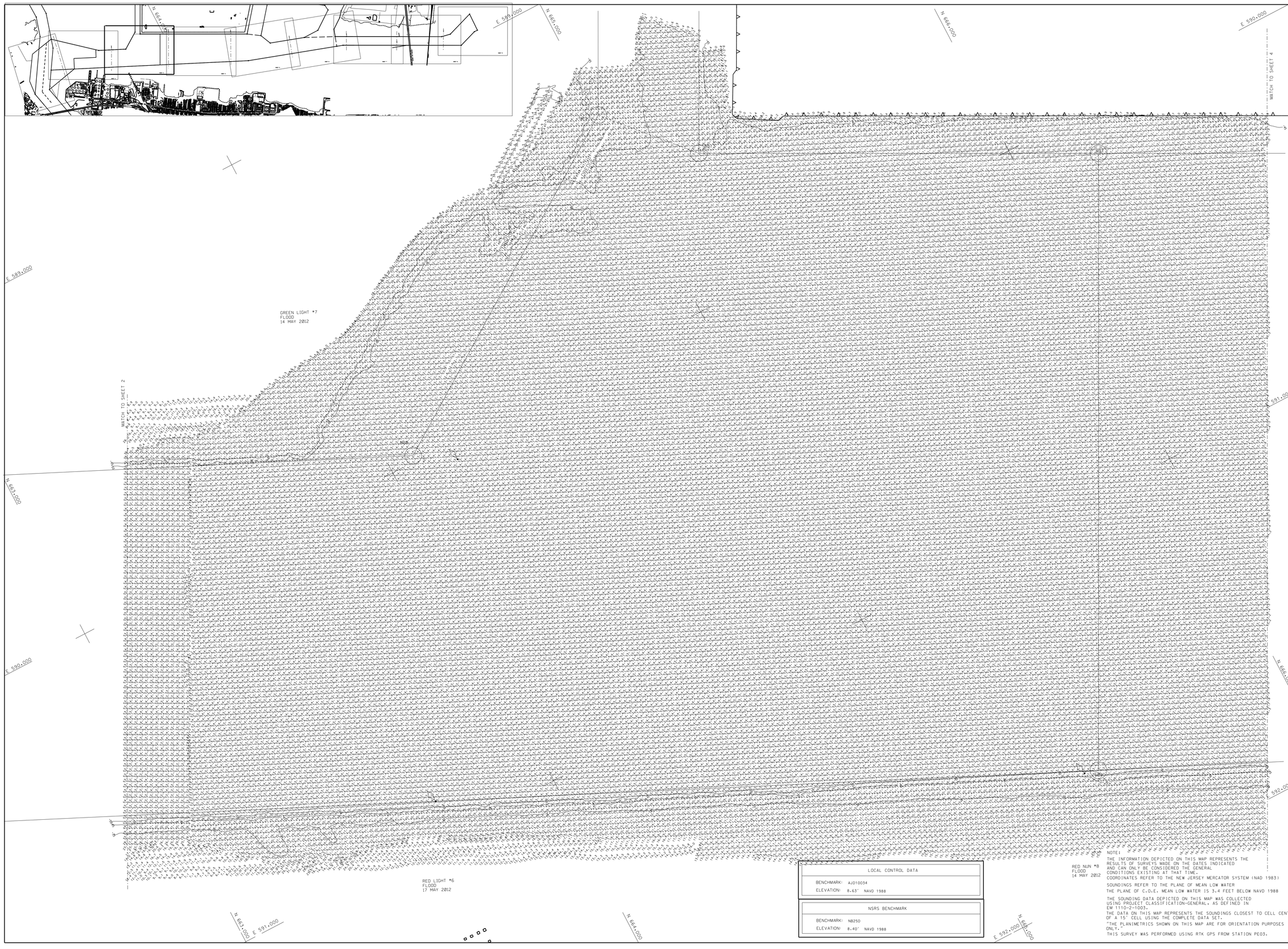
VH-102

SHEET 2 OF 9

930
3831D/N3/N1

CORPS OF ENGINEERS

U. S. ARMY



LOCAL CONTROL DATA	
BENCHMARK:	AJD10034
ELEVATION:	8.63' NAVD 1988

NSRS BENCHMARK	
BENCHMARK:	NB250
ELEVATION:	8.40' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983)

SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER

THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL. AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP REPRESENTS THE SOUNDINGS CLOSEST TO CELL CENTER OF A 15' CELL USING THE COMPLETE DATA SET.

"THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY."

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION PEO3.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

SCALE: ONE INCH = 100 FEET

DATES OF SURVEY: 14, 15, 16, 17, 18, 22, 23, 29 & 30 MAY & 4 & 5 JUN 2012

FIELD BOOKS: 14288

FILE NO.: 930
REQUEST NO.: 3831D/N3/N1

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — ASSISTANT CHIEF OF SURVEYS
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEYS
DATE: 14 JUN 2012

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, NEW JERSEY

NEWARK BAY MAIN CHANNEL

CONDITION SURVEY

VH–103

SHEET 3 OF 9

930
3831D/N3/N1

LOCAL CONTROL DATA	
BENCHMARK:	AJ0I0034
ELEVATION:	8.63' NAVD 1988

NSRS BENCHMARK	
BENCHMARK:	NB25D
ELEVATION:	8.40' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983)

SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER

THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988
THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL, AS DEFINED IN EM1110-2-1003.

THE DATA ON THIS MAP REPRESENTS THE SOUNDINGS CLOSEST TO THE CENTER OF A 15' CELL USING THE COMPLETE DATA SET.
"THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY."
THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION PE03.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
2-5, 9-11, 15-17, 21-22
23-29, 30 MAY & 1-2
4-5 JUN 2012

FILE NO.: 930
REQUEST NO.: 3831D/N3/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
NONE

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — PROJ. CHIEF OF SURVEYS
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEYS
DATE: 14 JUN 2012

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

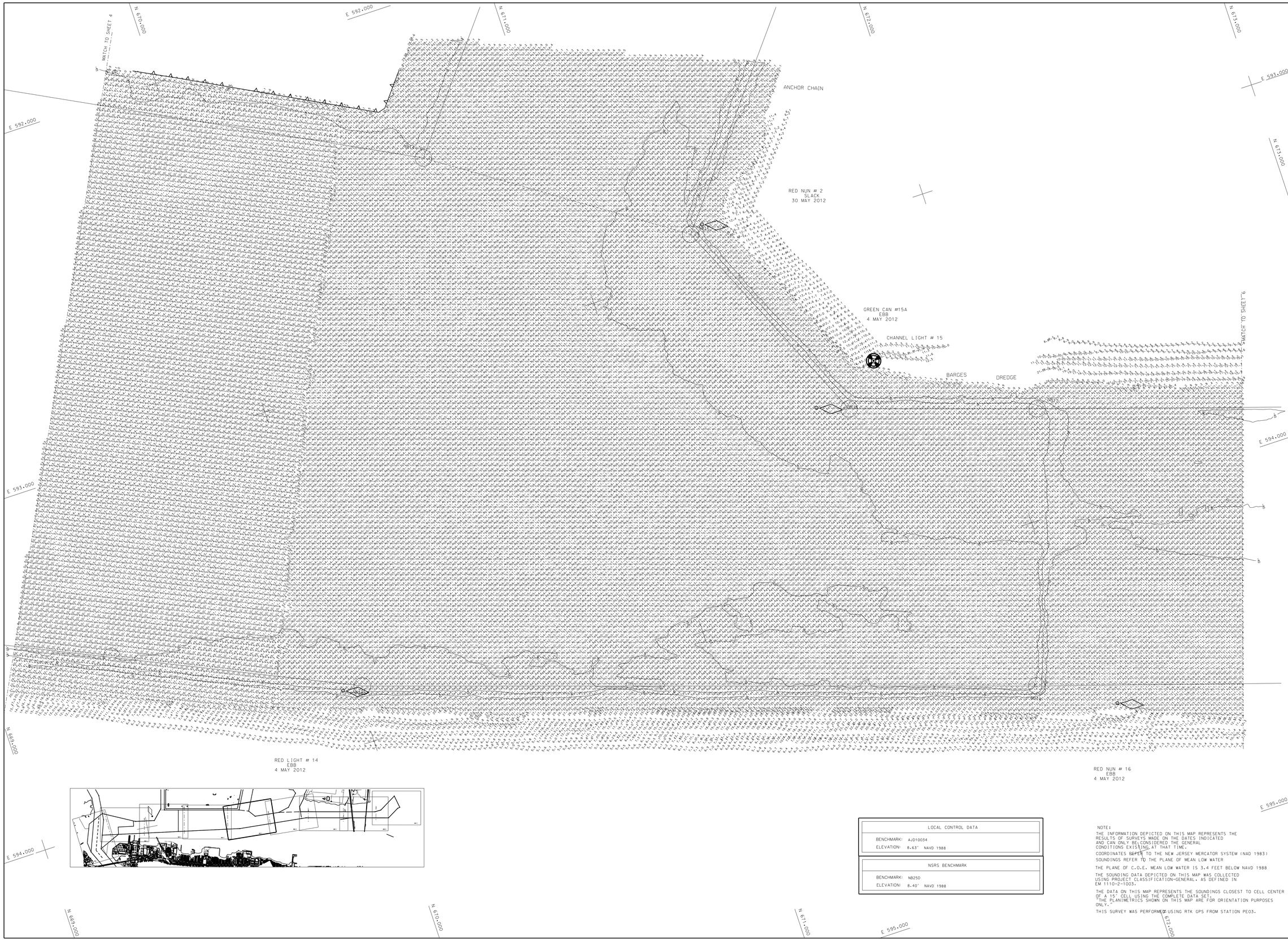
NEWARK BAY, HACKENSACK & PASSAIC RIVERS,
NEW JERSEY

NEWARK BAY MAIN CHANNEL

CONDITION SURVEY

VH-104

SHEET 4 OF 9



LOCAL CONTROL DATA	
BENCHMARK:	AJD10034
ELEVATION:	8.63' NAVD 1988

NSRS BENCHMARK	
BENCHMARK:	NB25D
ELEVATION:	8.40' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983)

SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER

THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL, AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP REPRESENTS THE SOUNDINGS CLOSEST TO CELL CENTER OF A 15' CELL USING THE COMPLETE DATA SET.
THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION PE03.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
4-5, 7-11, 15-17, 22
23-29, 30 MAY &
4-8 JUN 2012

FILE NO.: 930
REQUEST NO.: 3831D/N2/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1,2,3B

APPROVED: D. SMITH
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: J. MRAZ
CHIEF, ENGINEERING & CHIEF OF SURVEYS

APPROVED: F. POSTIGLIONE
CHIEF OF SURVEYS

DATE: 14 JUN 2012

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS,
NEW JERSEY

NEWARK BAY MAIN CHANNEL

CONDITION SURVEY

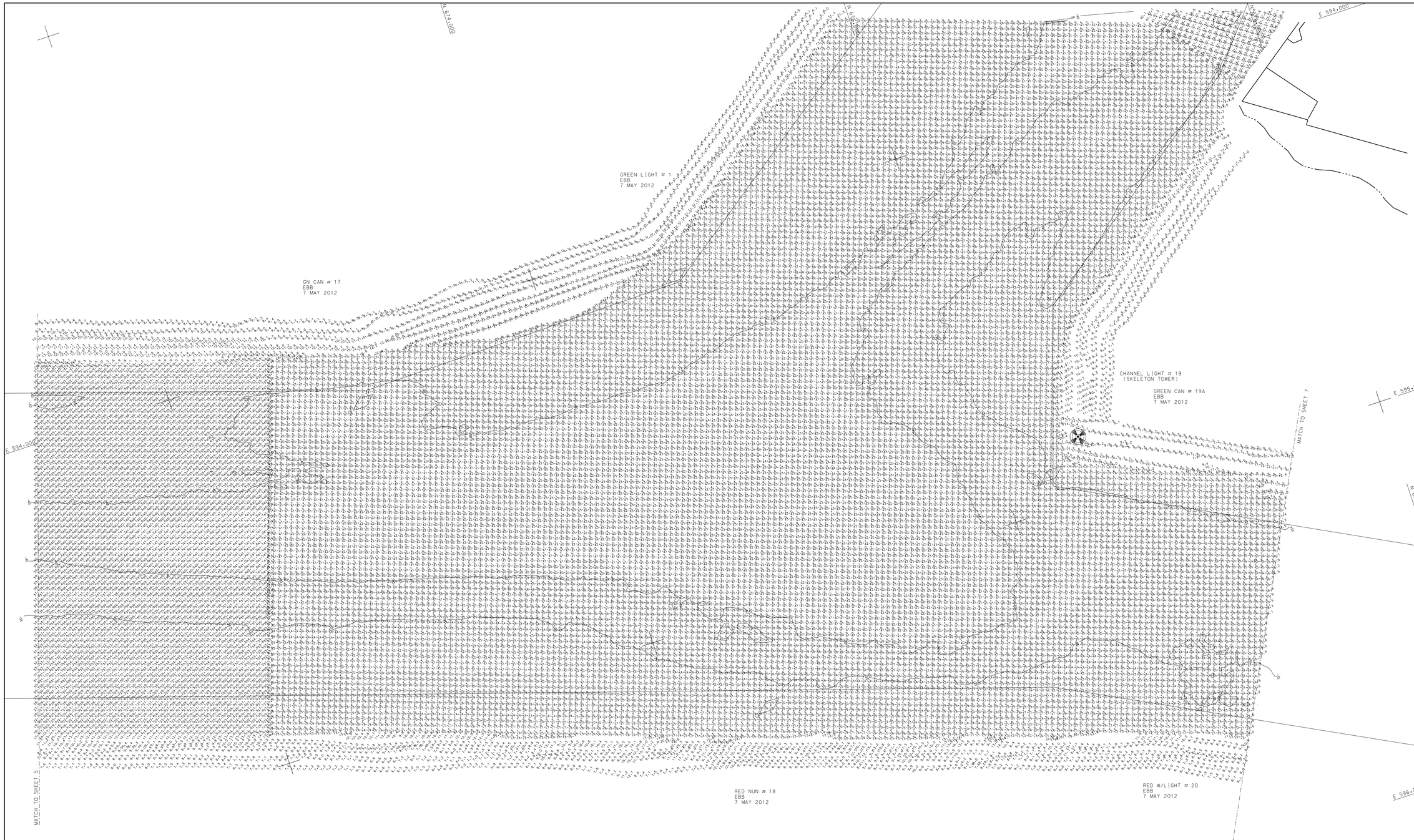
VH-105

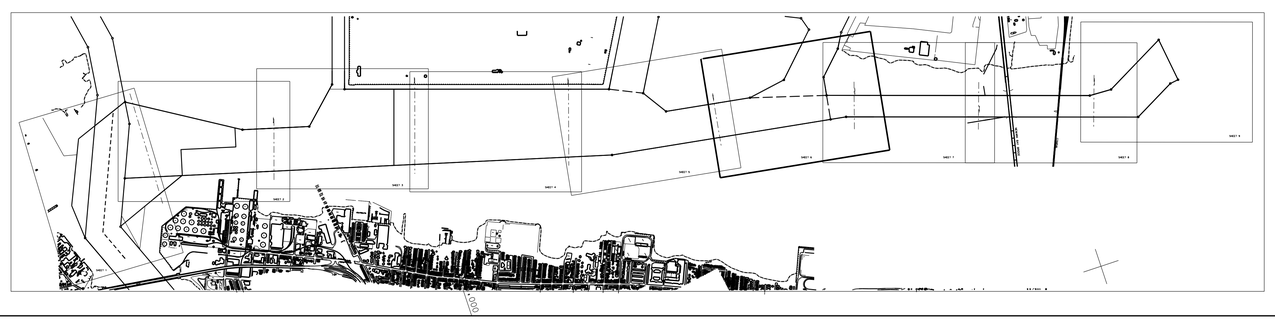
SHEET 5 OF 9

930
3831D/N3/N1

CORPS OF ENGINEERS

U. S. A





LOCAL CONTROL DATA	
BENCHMARK:	AJD10034
ELEVATION:	8.63' NAVD 1988

NSRS BENCHMARK	
BENCHMARK:	NB25D
ELEVATION:	8.40' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983)

SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER

THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL, AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP REPRESENTS THE SOUNDING CLOSEST TO THE CENTER OF A 15' CELL USING THE COMPLETE DATA CELL.

"THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY."

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION PE03.

US ARMY CORP
OF ENGINEERS
NEW YORK DIS

DATES OF SURVEY:
4.7.10,14.15,17.22
23,28,30 MAY &
4-5 JUN 2012

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. SMITH
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: J. MRAZ

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

OPERATIONS DIVISION

NEWARK BAY, HACKENSACK &
PASSAIC RIVERS,
NEW JERSEY

NEWARK BAY MAIN CHANNEL

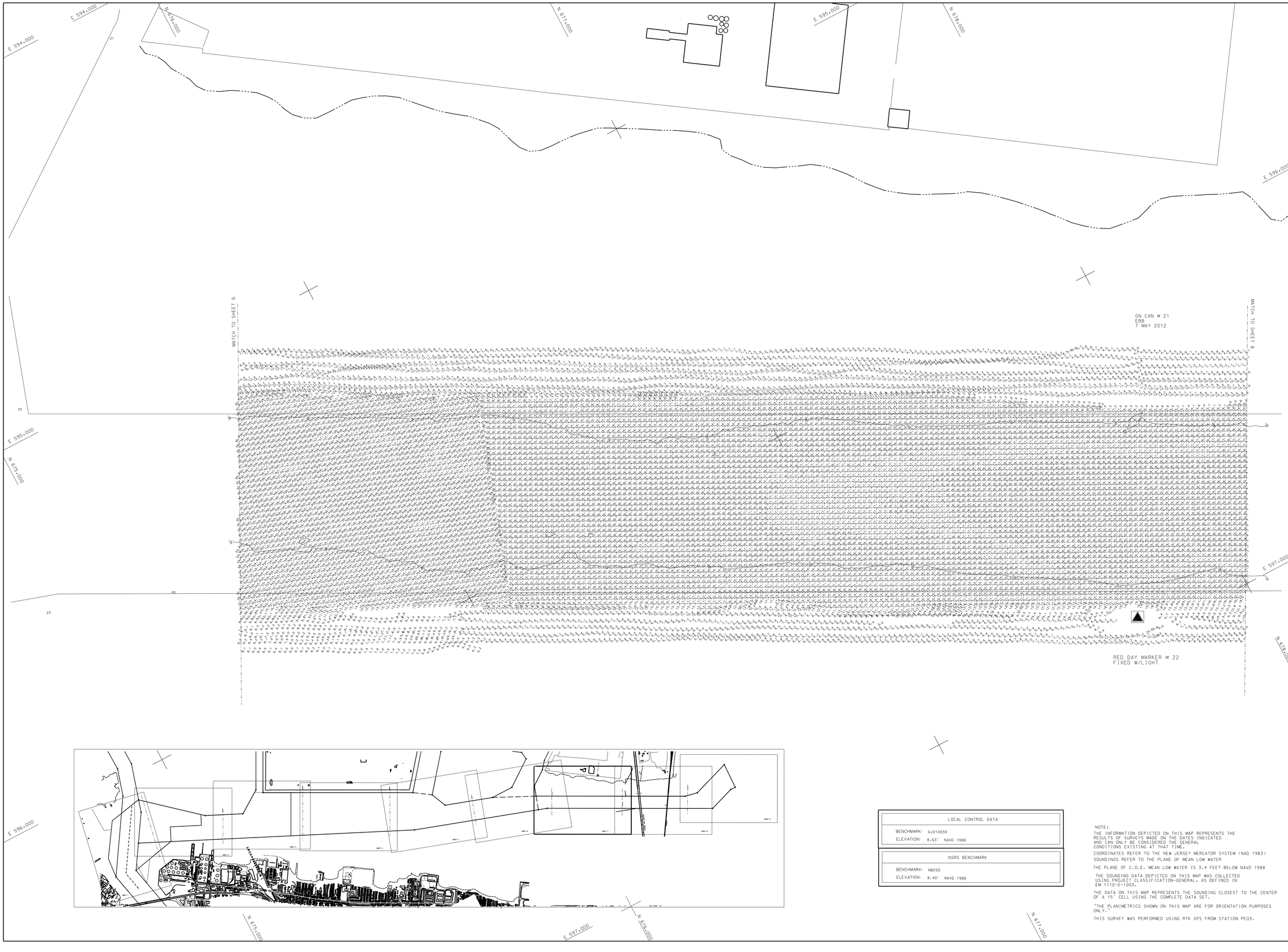
VH-10

SHEET 6

930
3831D/N3/N1

CORPS OF ENGINEERS

U. S. ARMY



LOCAL CONTROL DATA	
BENCHMARK:	AJD10034
ELEVATION:	8.63' NAVD 1988

NSRS BENCHMARK	
BENCHMARK:	NB250
ELEVATION:	8.40' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983)

SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER

THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL. AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP REPRESENTS THE SOUNDING CLOSEST TO THE CENTER OF A 15' CELL USING THE COMPLETE DATA SET.

"THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY."

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION PE03.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 4,7,10,14,15,17,22 23,29,30 MAY & 4-5 JUN 2012

FILE NO.: 930
REQUEST NO.: 3831D/N3/N1

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14288

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — ASST. CHIEF OF SURVEYS
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEYS
DATE: 14 JUN 2012

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, NEW JERSEY

NEWARK BAY MAIN CHANNEL

CONDITION SURVEY

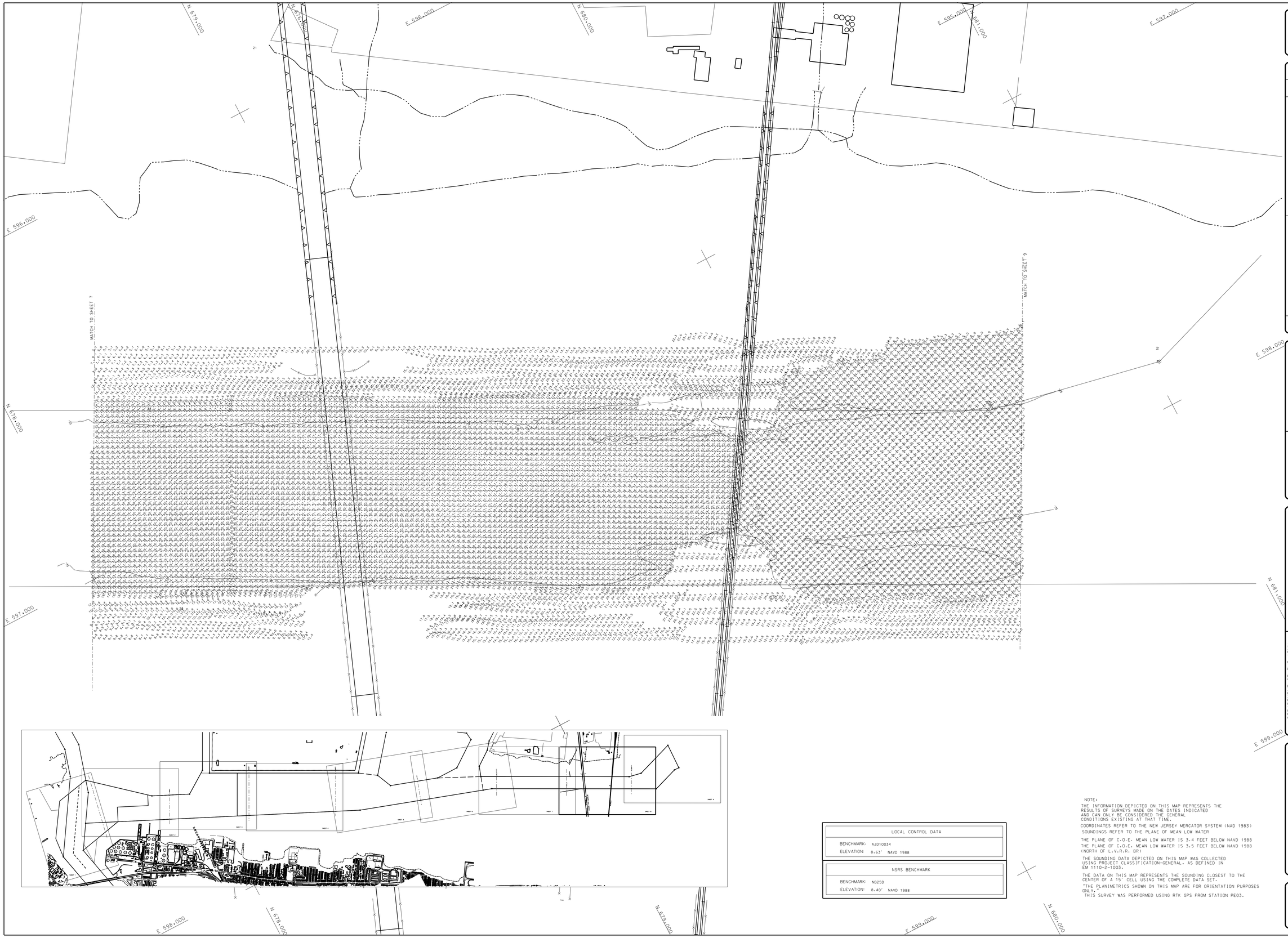
VH-107

SHEET 7 OF 9

930
3831D/N3/N1

CORPS OF ENGINEERS

U. S. ARMY



US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
4-5 APR, 15-17 MAY, 22-24, 29-30 MAY & 4-5 JUN 2012

FILE NO.: 930
REQUEST NO.: 3831D/N3/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14209

APPROVED: D. SMITH — FIELD OPERATIONS
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — CHIEF OF SURVEYS
APPROVED: E. PISTIGLIONE — CHIEF OF SURVEYS
DATE: 14 JUN 2012

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, NEW JERSEY

NEWARK BAY MAIN CHANNEL

CONDITION SURVEY

VH-108

SHEET 8 OF 9

LOCAL CONTROL DATA	
BENCHMARK:	AJD10034
ELEVATION:	8.63' NAVD 1988

NSRS BENCHMARK	
BENCHMARK:	NB25D
ELEVATION:	8.40' NAVD 1988

NOTE:
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983)

SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER

THE PLANE OF C.O.E. MEAN LOW WATER IS 3.4 FEET BELOW NAVD 1988
THE PLANE OF C.O.E. MEAN LOW WATER IS 3.5 FEET BELOW NAVD 1988 (NORTH OF L.V.R.R. BR)

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL. AS DEFINED IN EM 1110-2-1003.

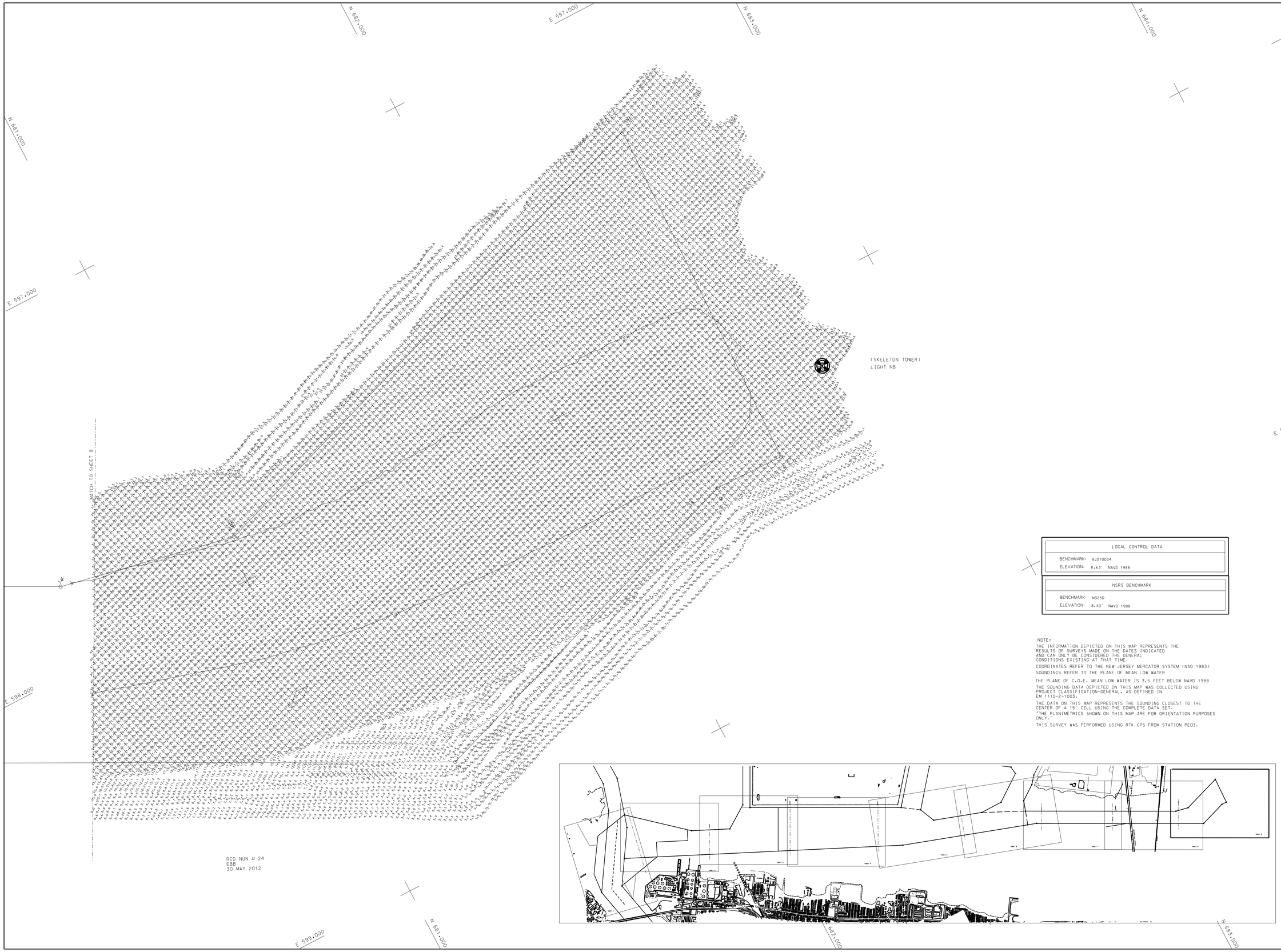
THE DATA ON THIS MAP REPRESENTS THE SOUNDING CLOSEST TO THE CENTER OF A 15' CELL USING THE COMPLETE DATA SET.

"THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY."
THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION PE03.

930
3831D/N3/N1

CORPS OF ENGINEERS

U. S. ARMY



LOCAL CONTROL DATA	
BENCHMARK:	AJD10034
ELEVATION:	8.63' NAVD 1988

NSRS BENCHMARK	
BENCHMARK:	NB25D
ELEVATION:	8.40' NAVD 1988

NOTE:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983)

SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER

THE PLANE OF C.O.E. MEAN LOW WATER IS 3.5 FEET BELOW NAVD 1988

THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION-GENERAL, AS DEFINED IN EM 1110-2-1003.

THE DATA ON THIS MAP REPRESENTS THE SOUNDING CLOSEST TO THE CENTER OF A 15' CELL USING THE COMPLETE DATA SET.

"THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY."

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION PE03.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
4,7,10,14,15,17,22
23,29, 30 MAY &
4-5 JUN 2012

FILE NO.: 930
REQUEST NO.: 3831D/N3/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14288

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — ASST. CHIEF OF SURVEYS
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEYS
DATE: 14 JUN 2012

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEWARK BAY, HACKENSACK & PASSAIC RIVERS, NEW JERSEY

NEWARK BAY MAIN CHANNEL

CONDITION SURVEY

VH-109

SHEET 9 OF 9

930
3831D/N3/N1