CORPS OF ENGINEERS

U. S. ARMY

CONTROL DATA	
BENCHMARK:	PE03
ELEVATION:	8.50' 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 CAVEN POINT

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
13-15, 22 & 27 JUN 2011

FILE NO.: 923
REQUEST NO.: 37000

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
15282

APPROVED: D. SMITH — FIELD SUPERVISOR
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. ARAZ — LEAD SUPERVISOR
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEY
DATE: 11 JUL 2011

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

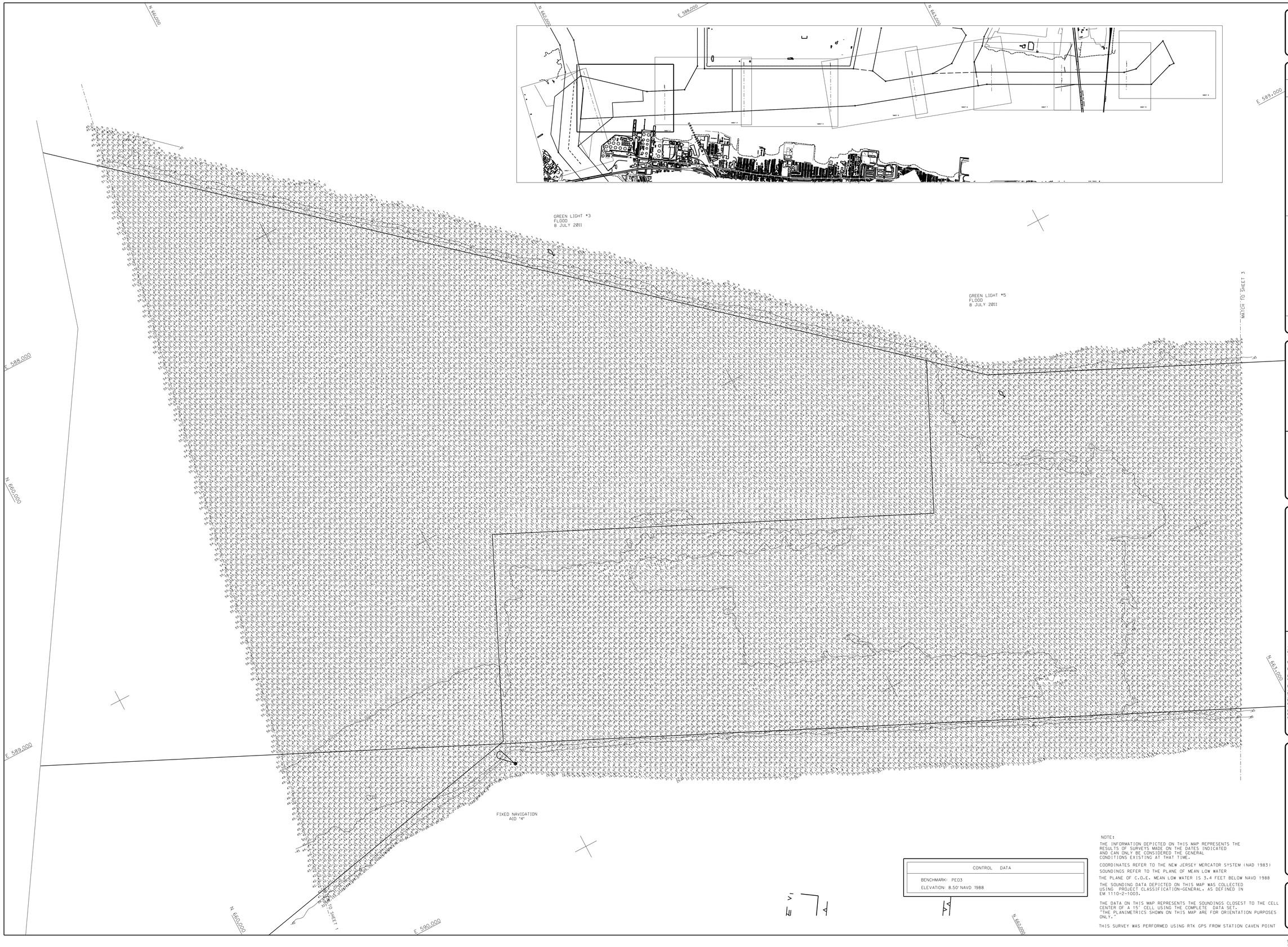
VH-101

SHEET 1 OF 9

923
37000

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA
BENCHMARK: PE03
ELEVATION: 8.50' 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 CAVEN POINT

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
13-15, 22 & 27 JUNE 2011

SCALE:
ONE INCH = 100 FEET

FILE NO.: 923
REQUEST NO.: 37000

FIELD BOOKS:
14282

APPROVED: D. SMITH FIELD CARTOGRAPHER
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE CHIEF OF SURVEY
DATE: 11 JUL 2011

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

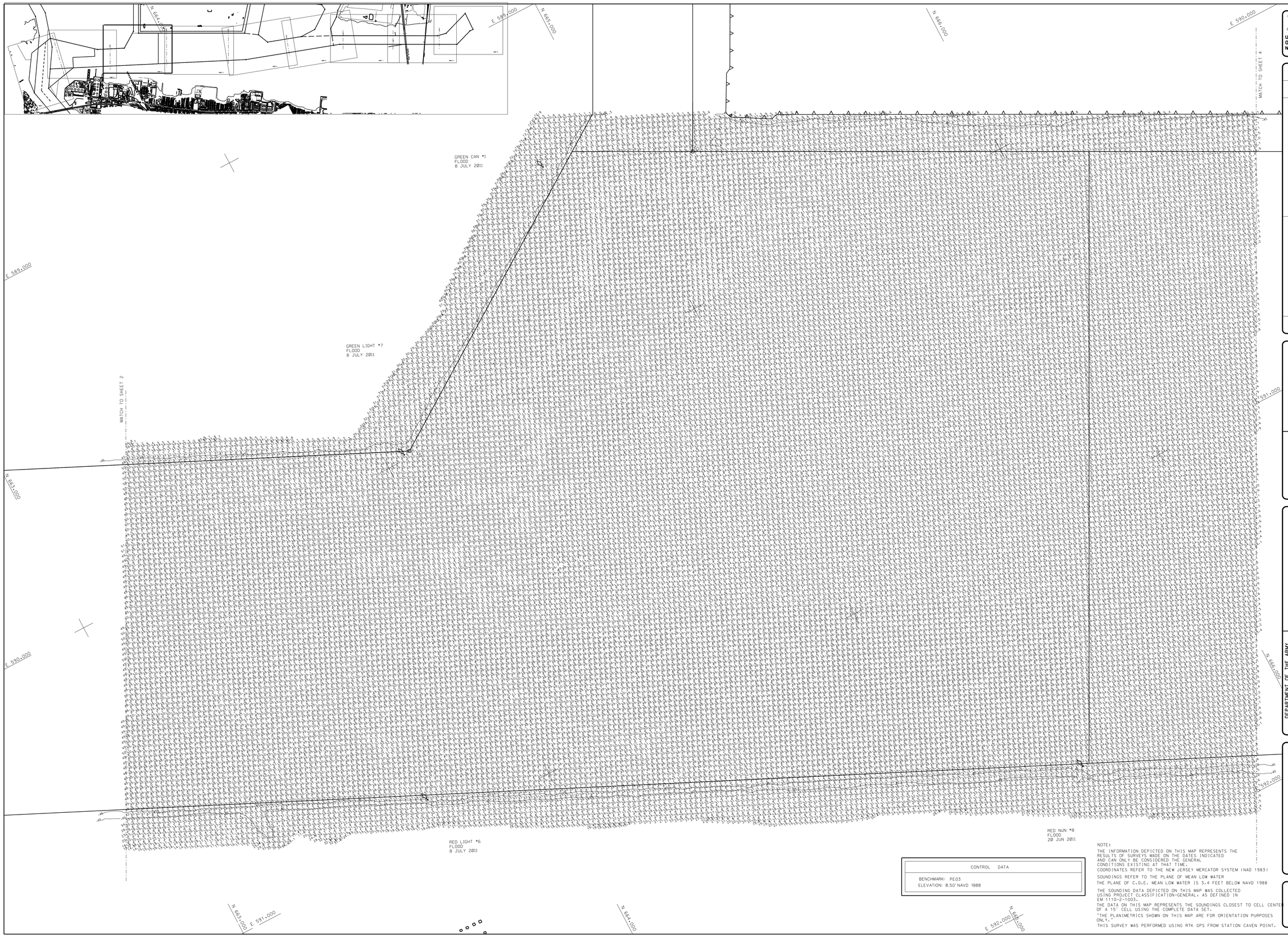
VH-102

SHEET 2 OF 9

923
37000

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA
BENCHMARK: PE03
ELEVATION: 8.50' 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 CAVEN POINT.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
13-16, 22 & 27 JUN 2011

FILE NO.: 923
REQUEST NO.: 37000

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
15282

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: 11 JUL 2011

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

923
37000

CORPS OF ENGINEERS

U. S. ARMY

CONTROL DATA	
BENCHMARK:	PE03
ELEVATION:	8.50' 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 CAVEN POINT.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 13-15, 22 & 27 JUNE 2011

FILE NO.: 923
REQUEST NO.: 37000

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14282

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEYS
DATE: 11 JUL 2011

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

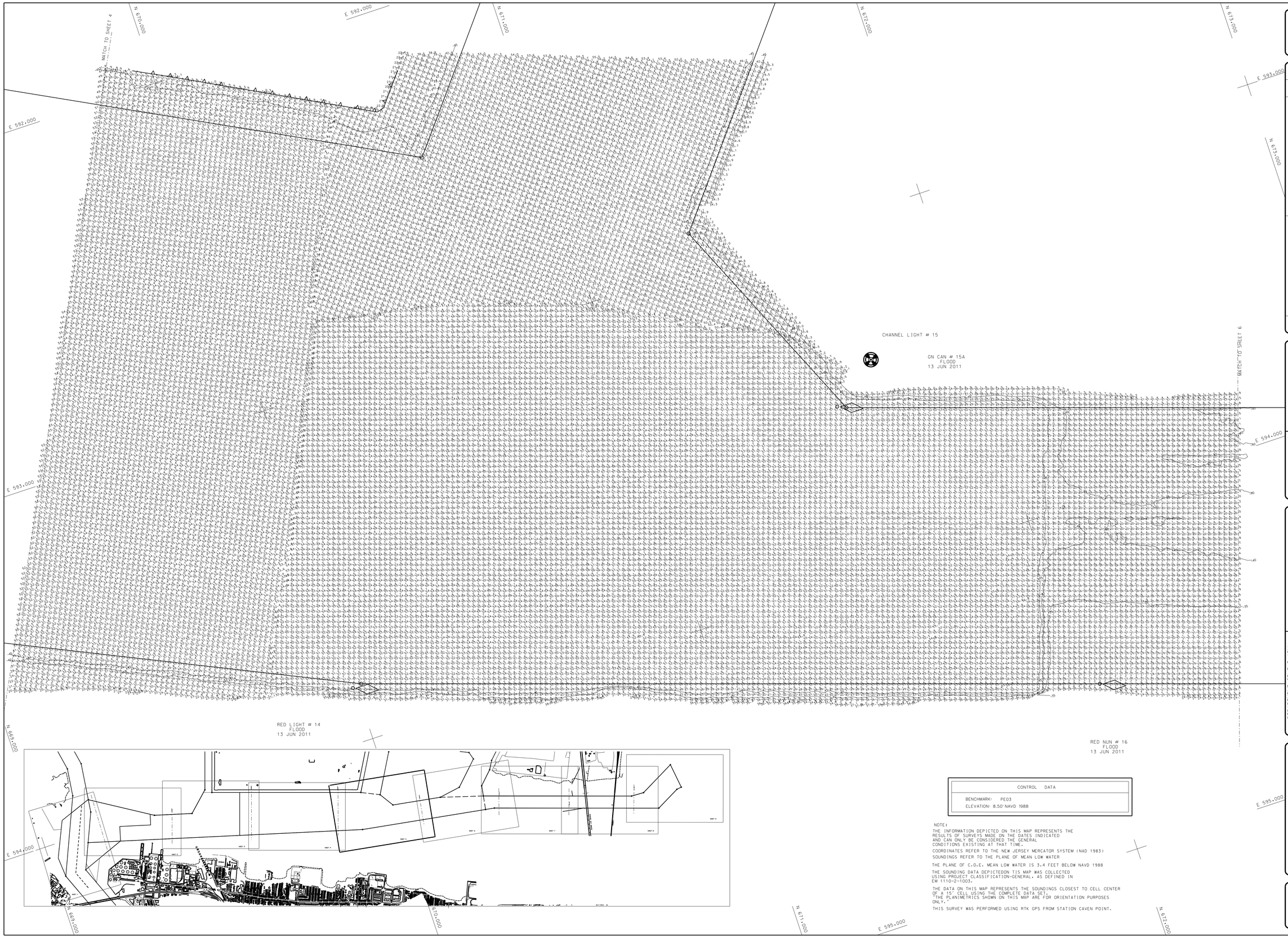
VH-104

SHEET 4 OF 9

923
37000

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA	
BENCHMARK:	PE03
ELEVATION:	8.50' 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 DEPICTEDON TIS 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 CAVEN POINT.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
13-15, 22 & 27 JUNE 2011

FILE NO.: 923
REQUEST NO.: 37000

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1,5,6

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MORAZ — LAND CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEYS
DATE: 11 JUN 2011

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

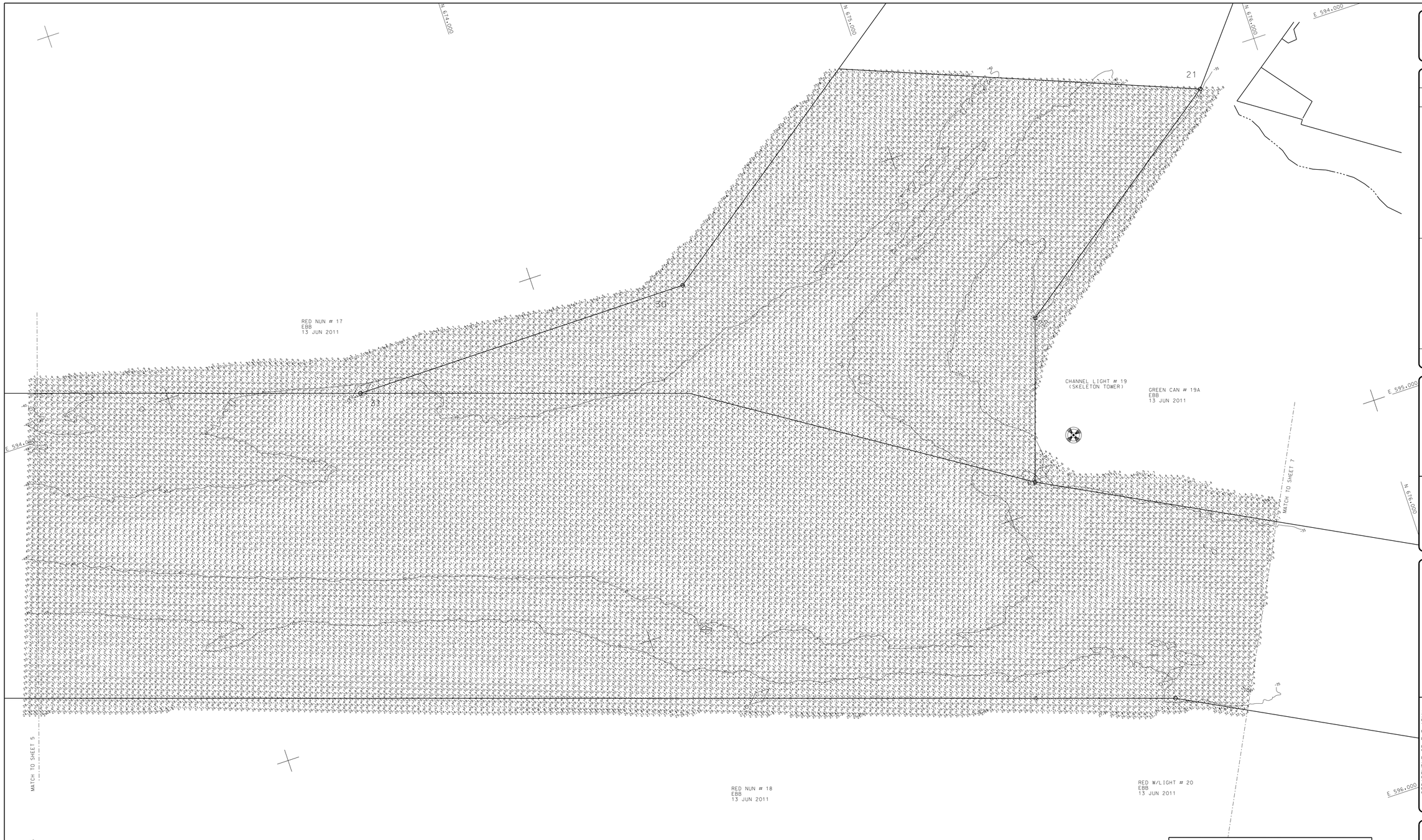
VH-105

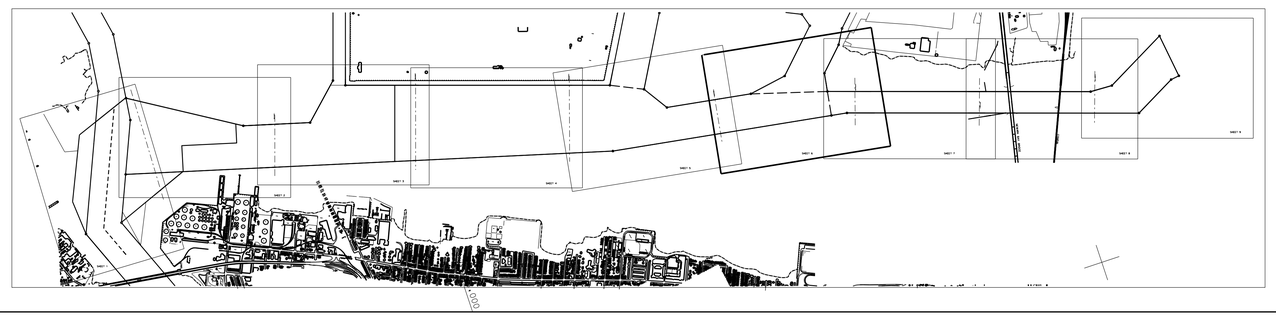
SHEET 5 OF 9

923
37000

CORPS OF ENGINEERS

U. S. ARMY





CONTROL DATA
BENCHMARK: PE03
ELEVATION: 8.50' 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 DEPICTEDON TIS 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 CAVEN POINT.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
13-15, 22 & 27 JUN 2011

SCALE:
ONE INCH = 100 FEET

FILE NO.: 923
REQUEST NO.: 37000

FIELD BOOKS:
14282

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 CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — CHIEF CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEYS
DATE: 11 JUL 2011

NEWARK BAY, HACKENSACK & PASSAIC RIVERS
NEW JERSEY
NEWARK BAY MAIN CHANNEL
CONDITION SURVEY

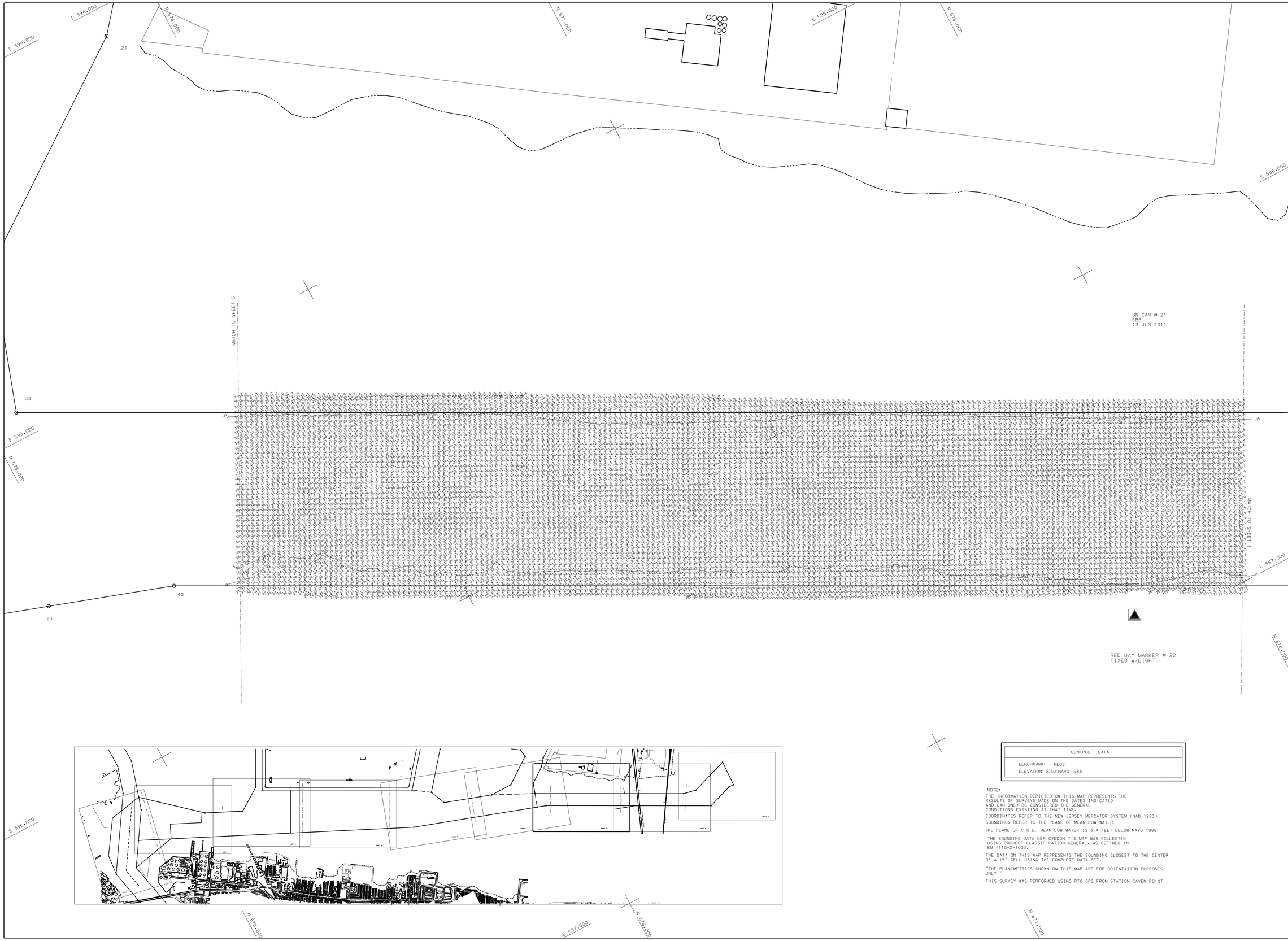
VH-106

SHEET 6 OF 9

923
37000

CORPS OF ENGINEERS

U. S. ARMY



US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 13-15, 22 & 27 JUN 2011

FILE NO.: 923
REQUEST NO.: 37000

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14282

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEYS
DATE: 11 JUL 2011

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

CONTROL DATA
BENCHMARK: PE03
ELEVATION: 8.50' 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 DEPICTEDON TIS 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.

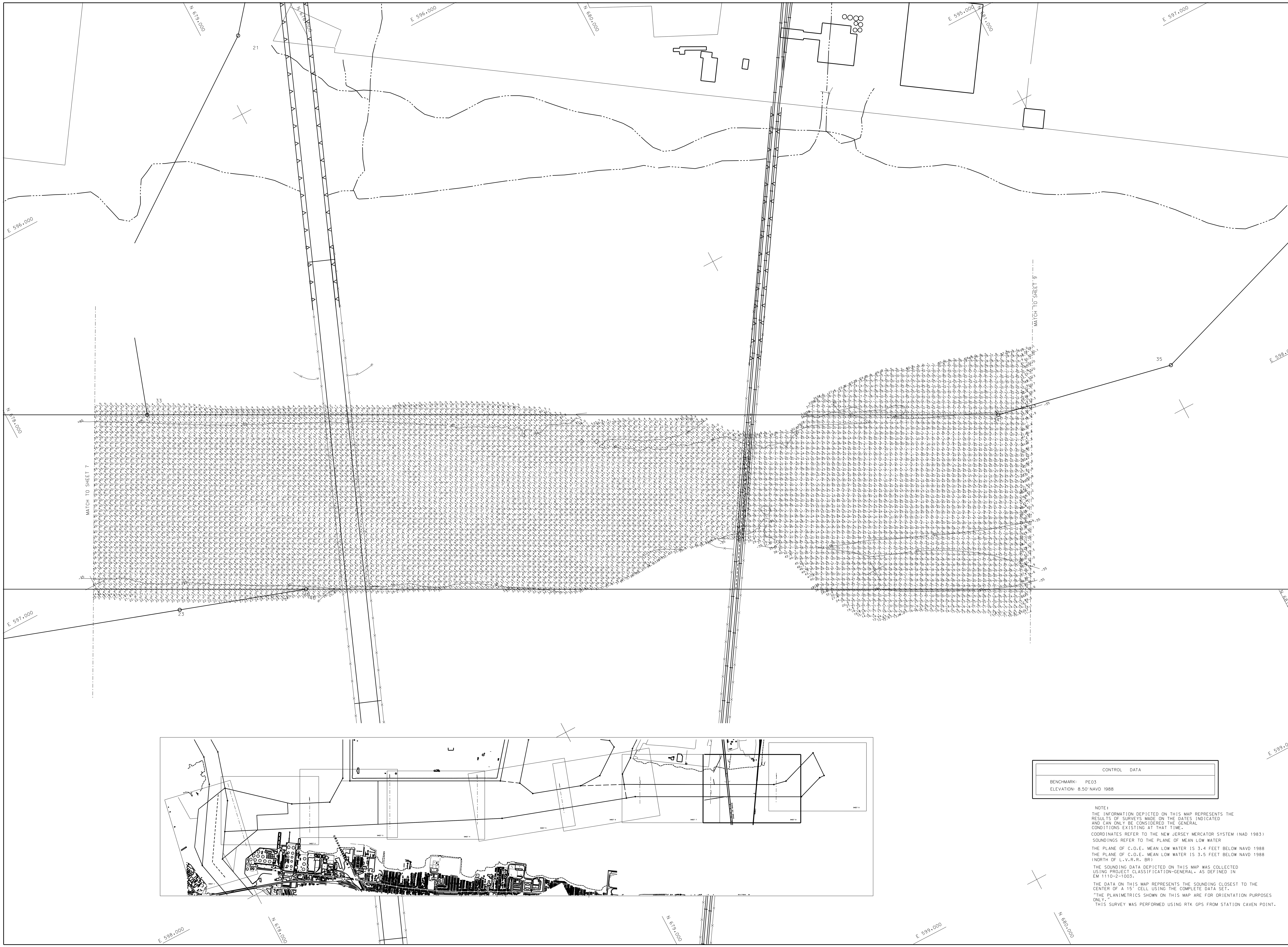
"THE PLANIMETRICS SHOWN ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY."

THIS SURVEY WAS PERFORMED USING RTK GPS FROM STATION CAVEN POINT.

923
37000

CORPS OF ENGINEERS

U. S. ARMY



CONTROL DATA
BENCHMARK: PE03
ELEVATION: 8.50' 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 CAVEN POINT.

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
13-15, 22 & 27 JUNE 2011

FILE NO.: 923
REQUEST NO.: 3700D

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
14282

APPROVED: D. SMITH — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: J. MRAZ — LEAD CARTOGRAPHER
APPROVED: F. POSTIGLIONE — CHIEF OF SURVEYS
DATE: 11 JUL 2011

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

923
3700D

CORPS OF ENGINEERS

U. S. ARMY

CONTROL DATA
BENCHMARK: PE03
ELEVATION: 8.50' 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 CAVEN POINT.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

DATES OF SURVEY: 13-15, 22 & 27 JUNE 2011

FILE NO.: 923
REQUEST NO.: 37000

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 14292

APPROVED: D. SMITH — FIELD CARTOGRAPHER

APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN

APPROVED: J. MRAZ — LEAD CARTOGRAPHER

APPROVED: F. POSTIGLIONE — CHIEF OF SURVEYS

DATE: 11 JUL 2011

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

923
37000