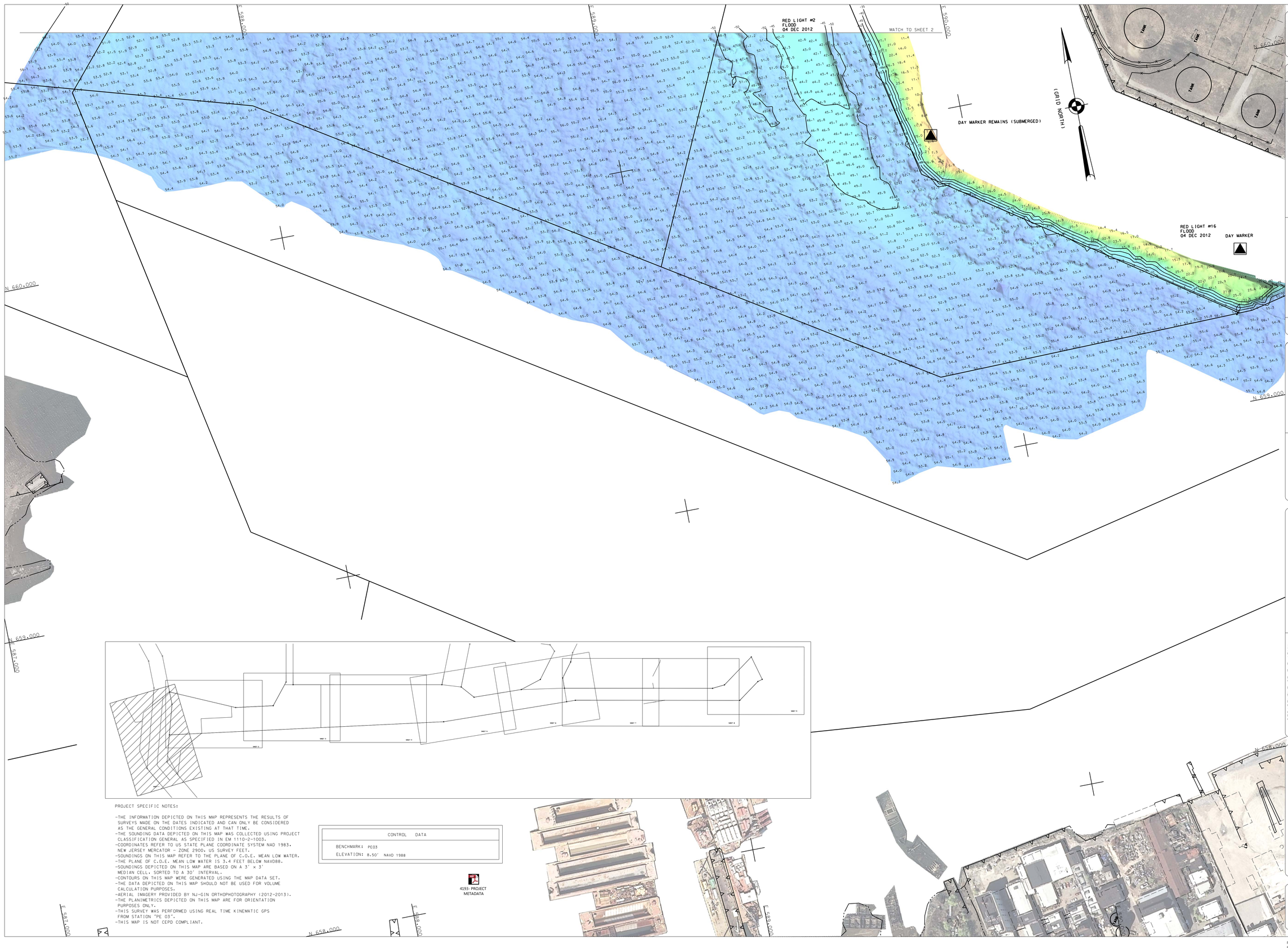
CORPS OF ENGINEERS

U. S. ARMY



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, NEW JERSEY MERCATOR - ZONE 2900, 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 3.4 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL, SORTED TO A 30' 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 NJ-GIN ORTHOPHOTOGRAPHY (2012-2013).
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "PE 03".
- THIS MAP IS NOT CEPD COMPLIANT.

CONTROL DATA
BENCHMARK: PE03
ELEVATION: 8.50' NAVD 1988

4193- PROJECT METADATA

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ESO	PR	
TD	PR	
TD	MP	

DATES OF SURVEY:
20-22,25,27 AUGUST 2014
8,16,18,19,24 SEPTEMBER 2014

FILE NO.: 943
REQUEST NO.: 4193/D/N2/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1002

APPROVED: D. SMITH/J. ABRAHAMSEN
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 31 OCT 2014

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

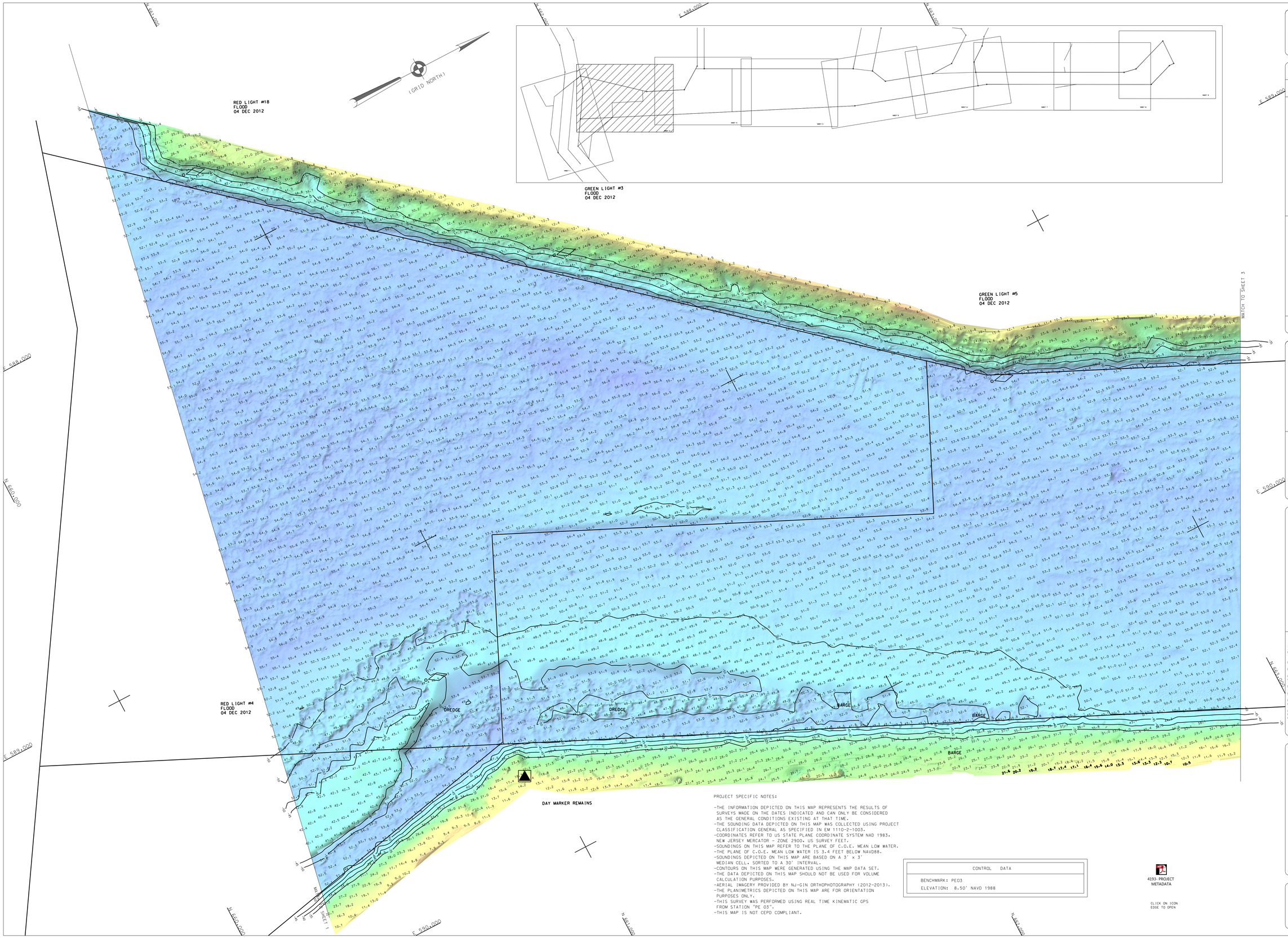
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

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

VH-101

SHEET 1 OF 9

FILE NO: 943
REQUEST NO: 4193/D/N2/N1



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, NEW JERSEY MERCATOR - ZONE 2900, 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 3.4 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL, SORTED TO A 30' 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 NJ-GIN ORTHOPHOTOGRAPHY (2012-2013).
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "PE 03".
- THIS MAP IS NOT CEPD COMPLIANT.

CONTROL DATA
BENCHMARK: PE03
ELEVATION: 8.50' NAVD 1988

4193- PROJECT METADATA

CLICK ON ICON EDGE TO OPEN

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ESO	PR
TD	PR
TD	MP

DATES OF SURVEY:
20-22,25,27 AUGUST 2014
8,16,18,19,24 SEPTEMBER 2014

FILE NO.: 943
REQUEST NO.: 4193/D/N2/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1002

APPROVED: D. SMITH/J. ABRAHAMSEN
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 31 OCT 2014

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

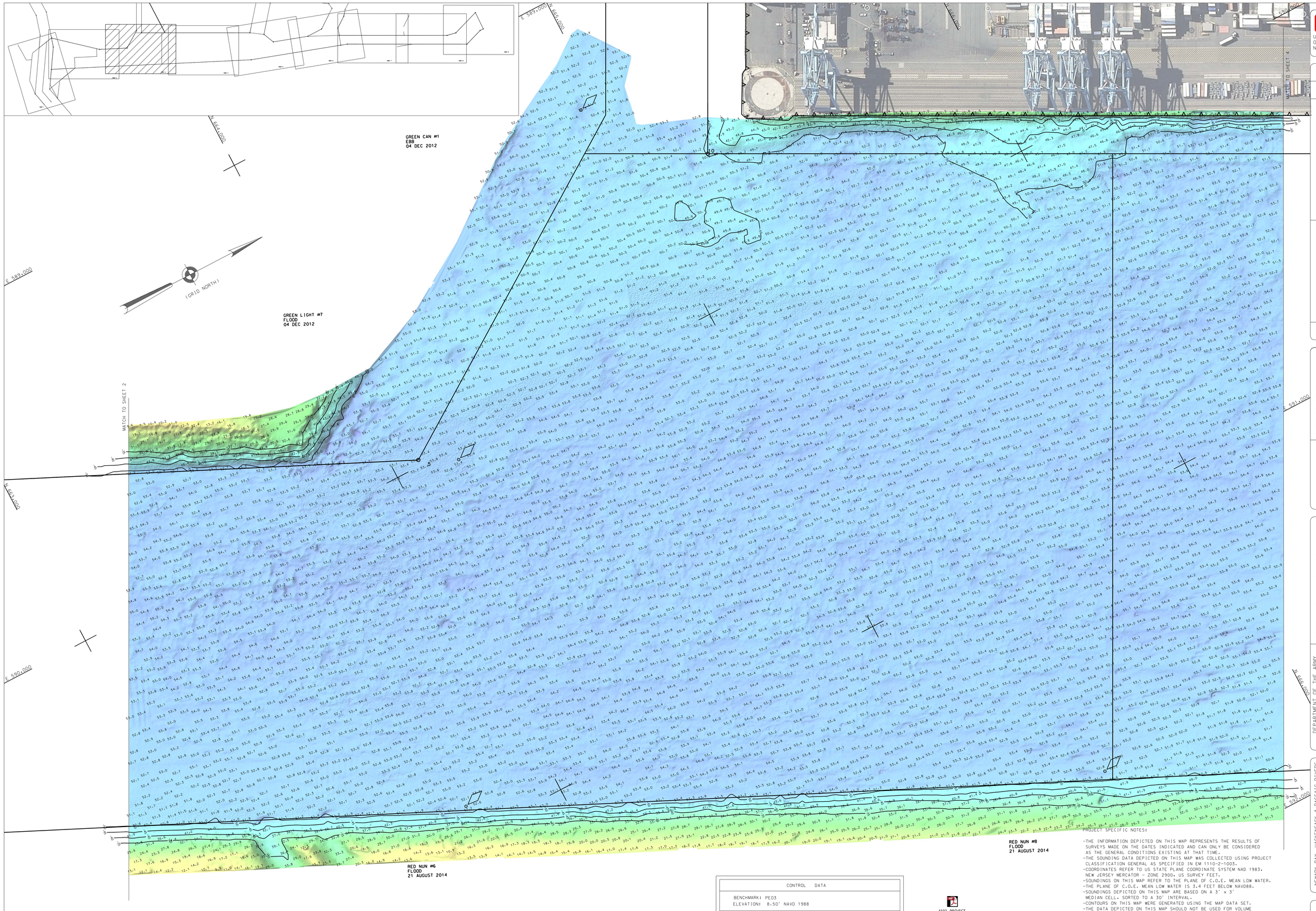
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

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

VH-102

SHEET 2 OF 9

FILE NO.: 943
REQUEST NO.: 4193/D/N2/N1



CONTROL DATA
BENCHMARK: PE03
ELEVATION: 8.50' NAVD 1988

4193-PROJECT METADATA

CLICK ON ICON EDGE TO OPEN

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. NEW JERSEY MERCATOR - ZONE 2900. 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 3.4 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL. SORTED TO A 30' 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 NJ-GIN ORTHOPHOTOGRAPHY (2012-2013).
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "PE 03".
- THIS MAP IS NOT CEPD COMPLIANT.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ESD	PR	
TD	PR	
TD	MP	

DATES OF SURVEY:
20-22,25,27 AUGUST 2014
8,16,18,19,24 SEPTEMBER 2014

FILE NO.: 943
REQUEST NO.: 4193/D/N2/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1002

APPROVED: D. SMITH/J. ABRAHAMSEN
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 31 OCT 2014

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

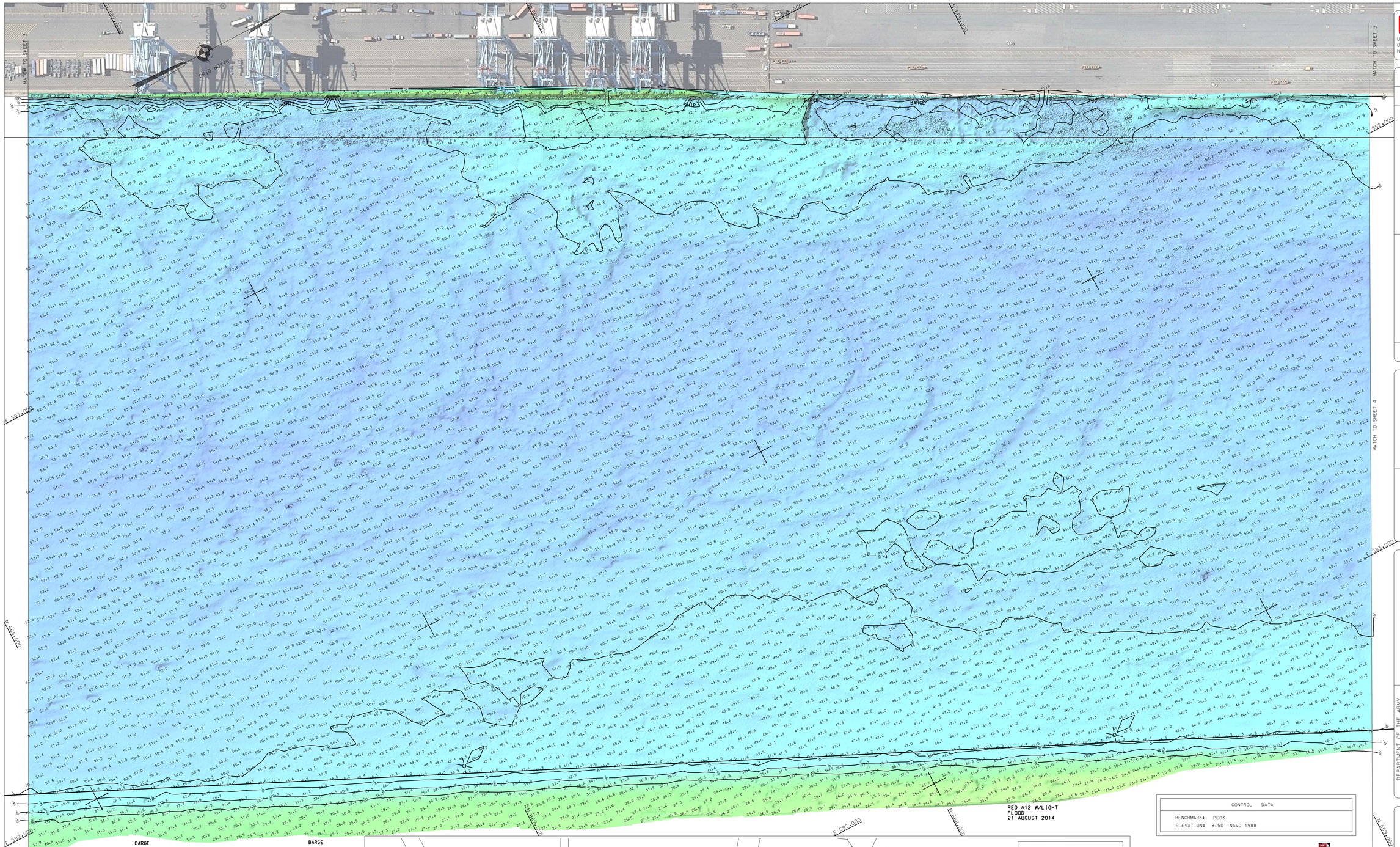
VH-103

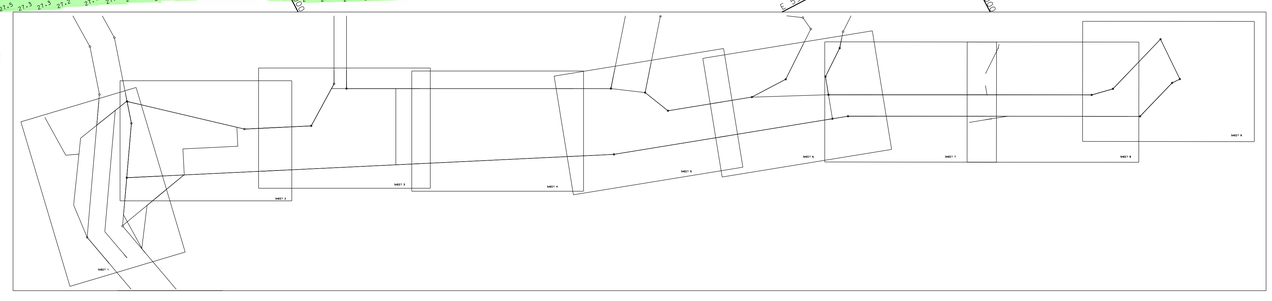
SHEET 3 OF 9

FILE NO.: 943
REQUEST NO.: 4193/D/N2/N1

CORPS OF ENGINEERS

U. S. ARMY





CONTROL DATA	
BENCHMARK:	PE03
ELEVATION:	8.50' NAVD 1988

4193- PROJECT METADATA

CLICK ON ICON EDGE TO OPEN

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. NEW JERSEY MERCATOR - ZONE 2900. 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 3.4 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL. SORTED TO A 30' 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 NJ-GIN ORTHOPHOTOGRAPHY (2012-2013).
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "PE 03".
- THIS MAP IS NOT CEPD COMPLIANT.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

ESQ	PR	
TD	PR	
TD	MP	

DATES OF SURVEY:
20-24,26,27 AUGUST 2014
2,3,8,9,15,22,23,29,30 SEPTEMBER 2014

FILE NO.: 943
REQUEST NO.: 4193/D/N2/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1092
1093

APPROVED: D. SMITH/J. ARBAUMSEN
CHIEF, HYDROGRAPHIC SURVEYS & CARTOGRAPHY

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 31 OCT 2014

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

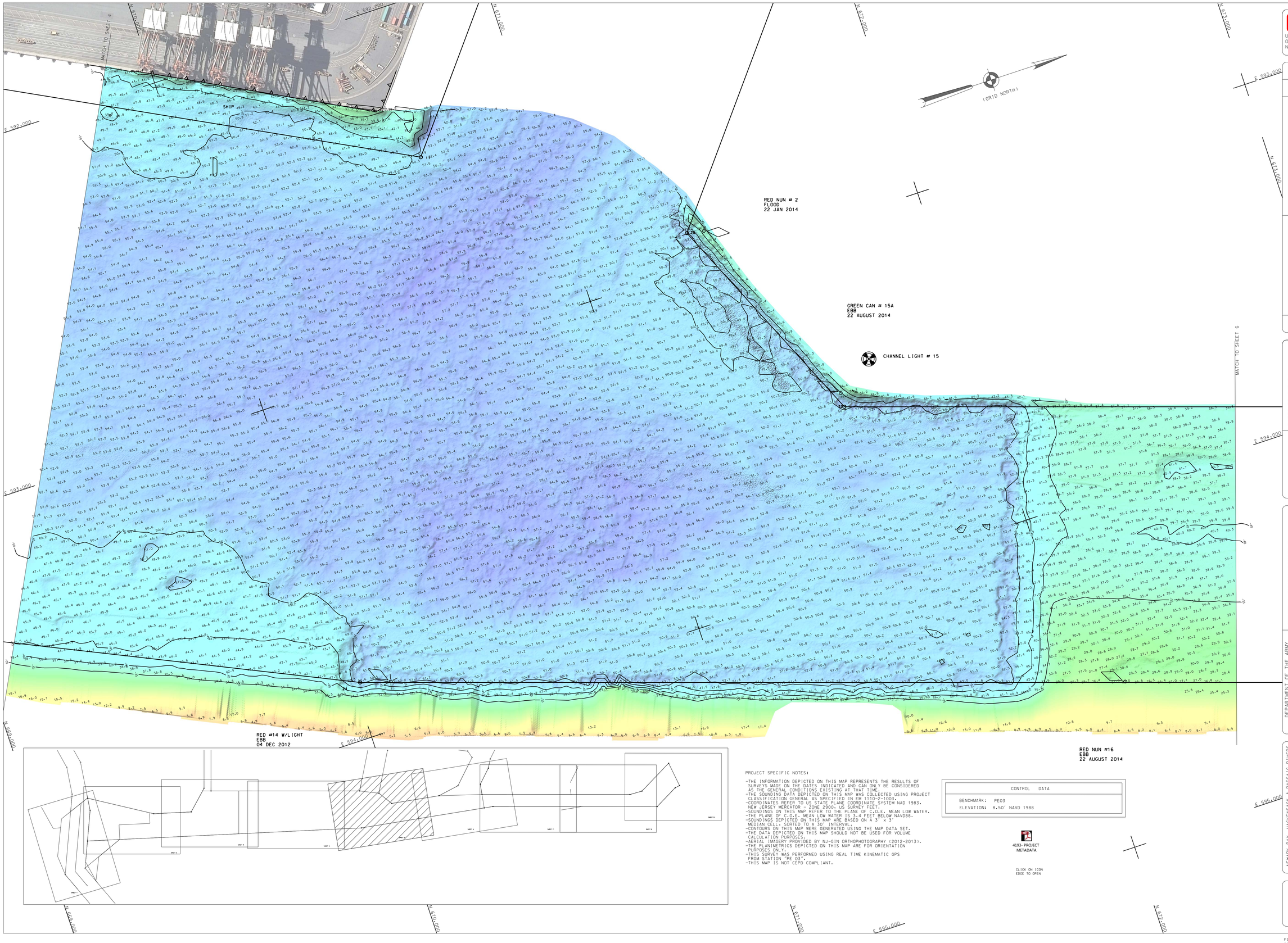
VH-104

SHEET 4 OF 9

FILE NO.: 943
REQUEST NO.: 4193/D/N2/N1

CORPS OF ENGINEERS

U. S. ARMY



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, NEW JERSEY MERCATOR - ZONE 2900, 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 3.4 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL, SORTED TO A 30' 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 NJ-GIN ORTHOPHOTOGRAPHY (2012-2013).
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "PE 03".
- THIS MAP IS NOT CEPD COMPLIANT.

CONTROL DATA

BENCHMARK: PE03
ELEVATION: 8.50' NAVD 1988

4193-PROJECT METADATA

CLICK ON ICON EDGE TO OPEN

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ESO	PR
TD	PR
TD	MP

DATES OF SURVEY:
20-22,25,27 AUGUST 2014
8,16,18,19,24 SEPTEMBER 2014

FILE NO.: 943
REQUEST NO.: 4193/D/N2/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1002

APPROVED: D. SMITH/J. ABRAHAMSEN
CIVIL ENGINEERING TECHNICIAN
APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE
LEAD CARTOGRAPHER
APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY
DATE: 31 OCT 2014

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

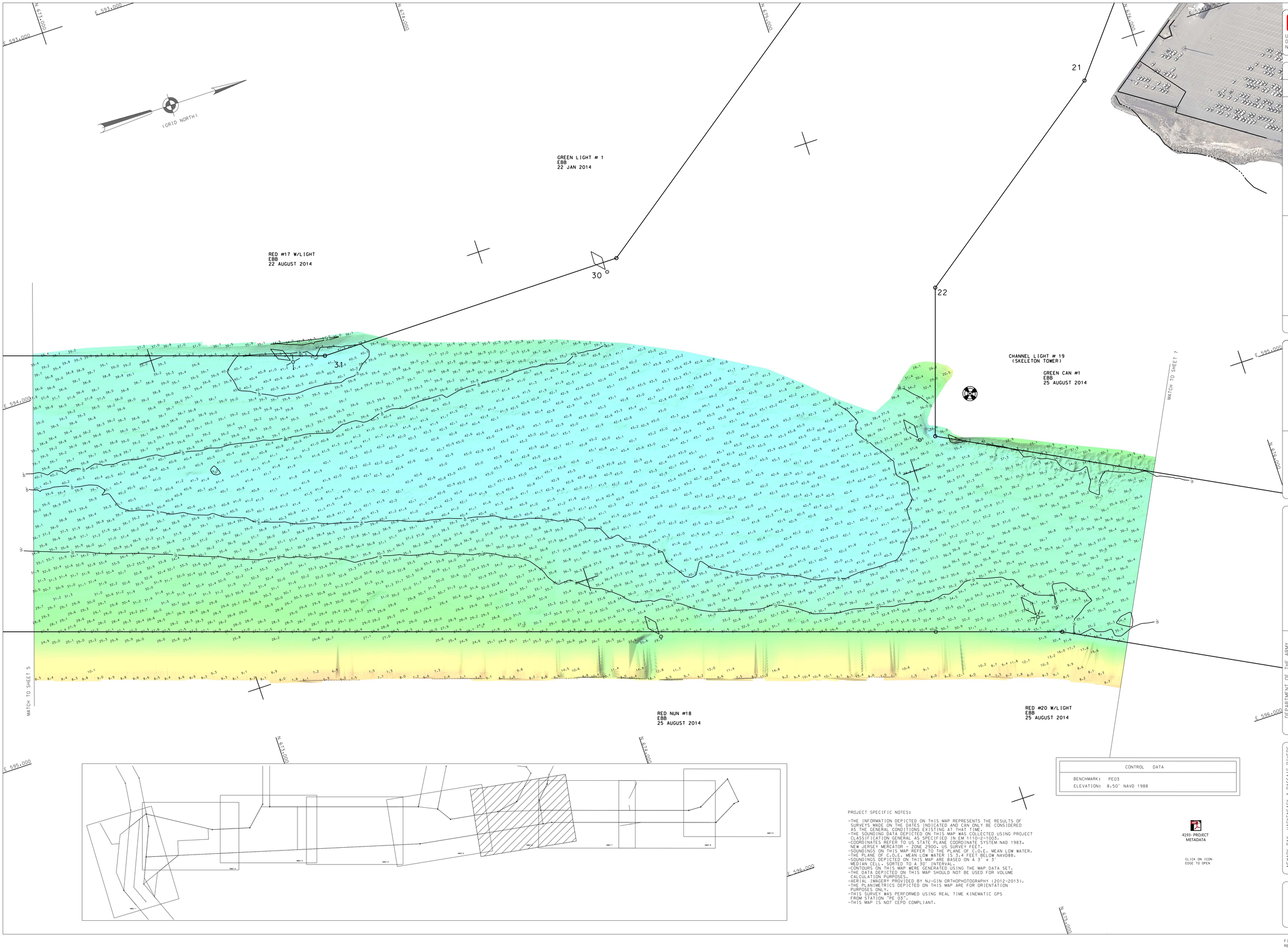
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

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

VH-105

SHEET 5 OF 9

FILE NO.: 943
REQUEST NO.: 4193/D/N2/N1



US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ESQ	PR
TD	PR
TD	MP

DATES OF SURVEY:
20-22,25-27 AUGUST 2014
8,16,18,19,24 SEPTEMBER 2014

FILE NO.: 943
REQUEST NO.: 4193/D/N2/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1002

APPROVED: D. SMITH/J. ABRAHAMSEN
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 31 OCT 2014

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

CONTROL DATA	
BENCHMARK:	PE03
ELEVATION:	8.50' NAVD 1988

PROJECT SPECIFIC NOTES:

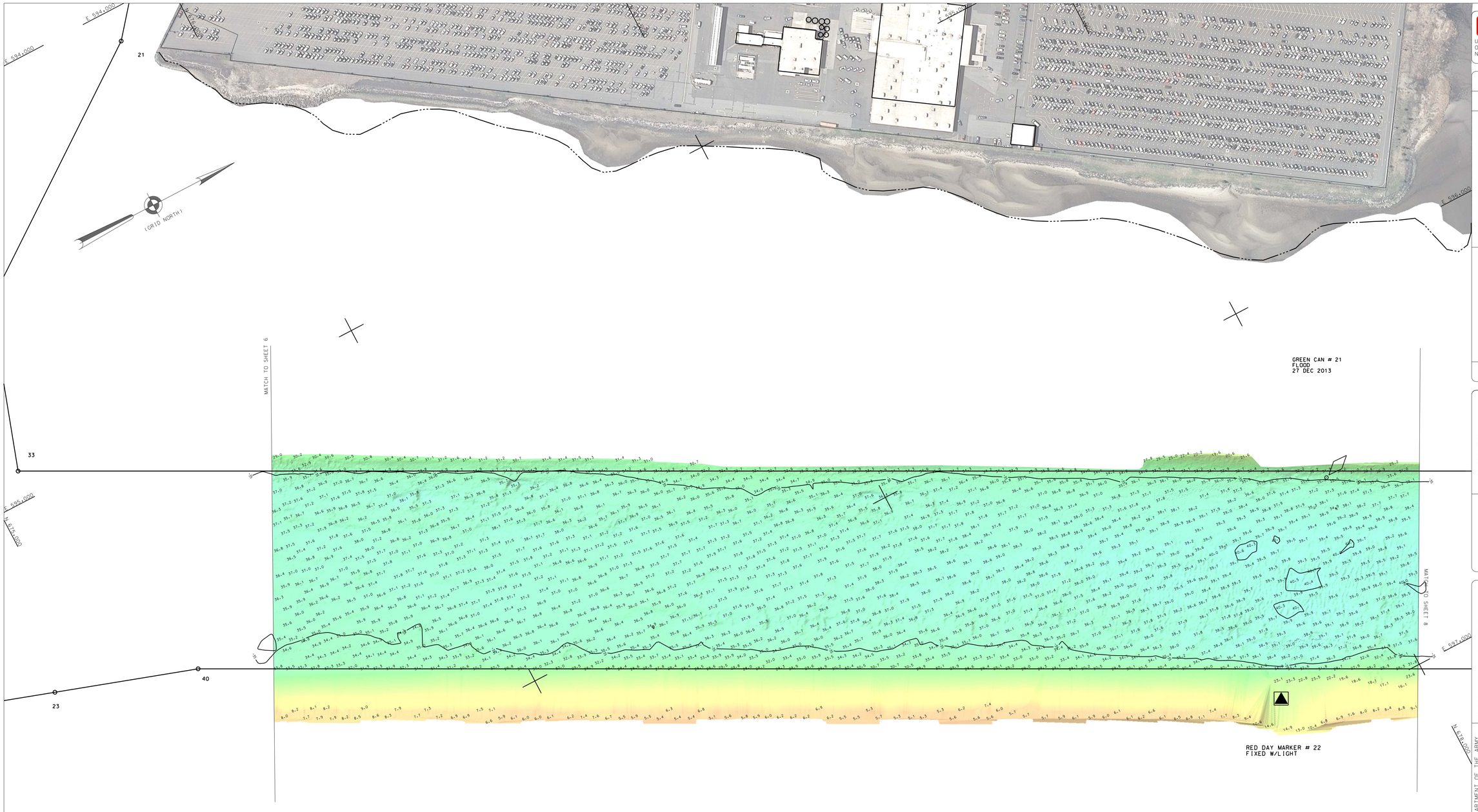
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL AS SPECIFIED IN EM 1110-2-1003.
- COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983. NEW JERSEY MERCATOR - ZONE 2900. 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 3.4 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL, SORTED TO A 30' 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 NJ-GIN ORTHOPHOTOGRAPHY (2012-2013).
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "PE 03".
- THIS MAP IS NOT CEPD COMPLIANT.

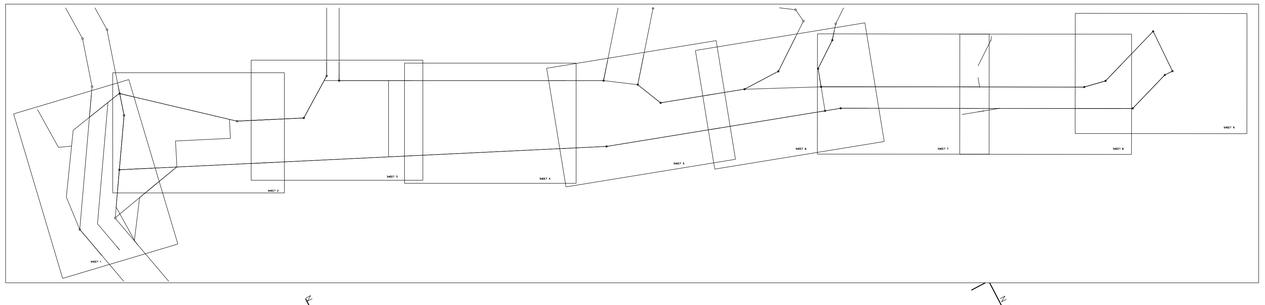
4193- PROJECT METADATA

CLICK ON ICON EDGE TO OPEN

VH-106

SHEET 6 OF 9





CONTROL DATA
BENCHMARK: PE03
ELEVATION: 8.50' NAVD 1988

4193-PROJECT METADATA

CLICK ON ICON EDGE TO OPEN

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, NEW JERSEY MERCATOR - ZONE 2900, 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 3.4 FEET BELOW NAVD88.
-SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL, SORTED TO A 30' 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 NJ-GIN ORTHOPHOTOGRAPHY (2012-2013).
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "PE 03".
-THIS MAP IS NOT CEPD COMPLIANT.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ESO	PR	
TD	PR	
TD	MP	

DATES OF SURVEY:
20-22,25,27 AUGUST 2014
8,16,18,19,24 SEPTEMBER 2014

FILE NO.: 943
REQUEST NO.: 4193/D/N2/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1002

APPROVED: D. SMITH/J. ABRAHAMSEN
CHIEF CARTOGRAPHER
APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE
LEAD CARTOGRAPHER
APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY
DATE: 31 OCT 2014

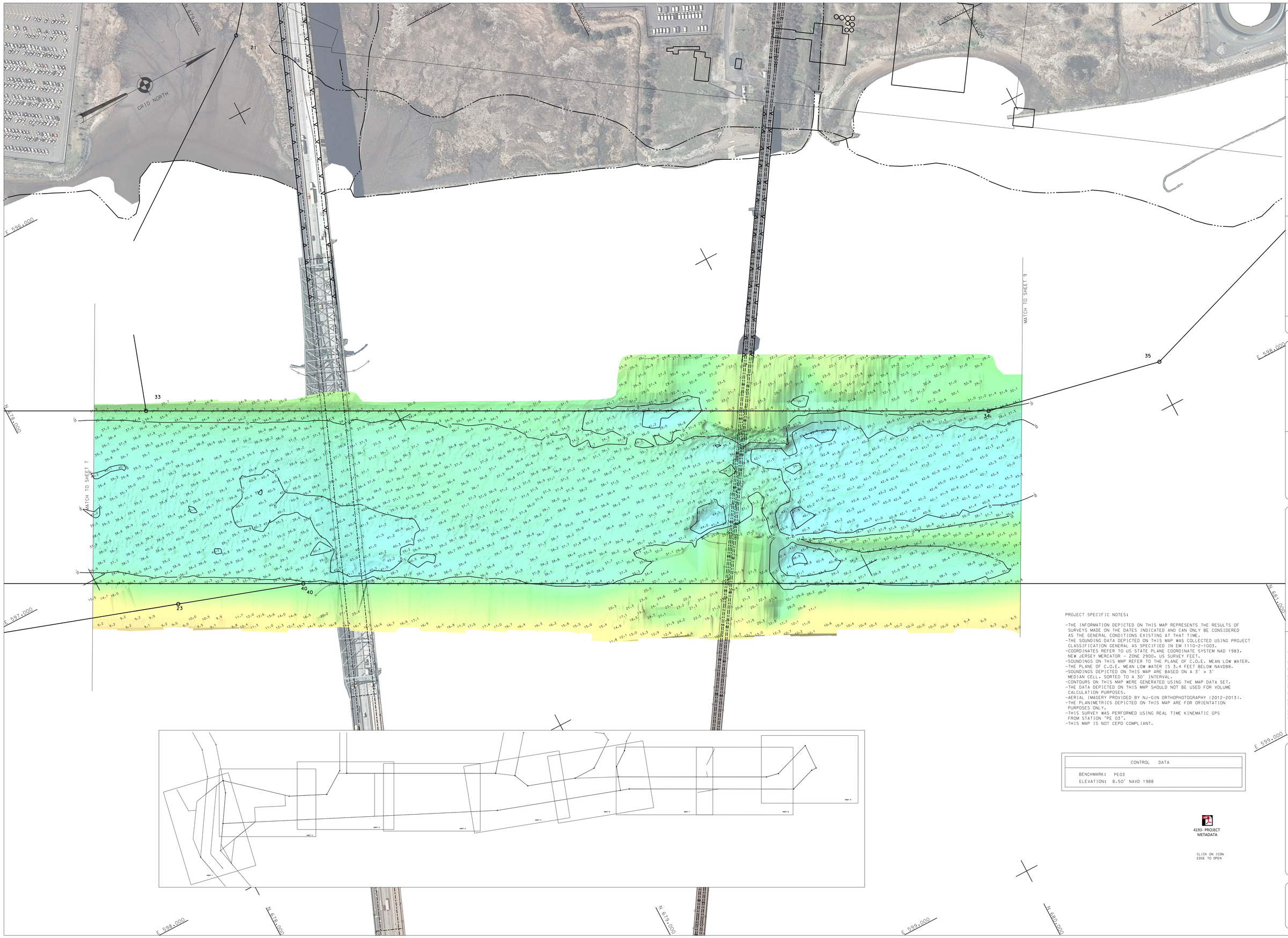
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

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



US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ESQ	PR	
TD	PR	
TD	MP	

DATES OF SURVEY:
20-22,25,27 AUGUST 2014
8,16,18,19,24 SEPTEMBER 2014

FILE NO.: 943
REQUEST NO.: 4193/D/N2/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1002

APPROVED: D. SMITH/J. ABRAHAMSEN
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 31 OCT 2014

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

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. NEW JERSEY MERCATOR - ZONE 2900. 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 3.4 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL. SORTED TO A 30' 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 NJ-GIN ORTHOPHOTOGRAPHY (2012-2013).
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "PE 03".
- THIS MAP IS NOT CEPD COMPLIANT.

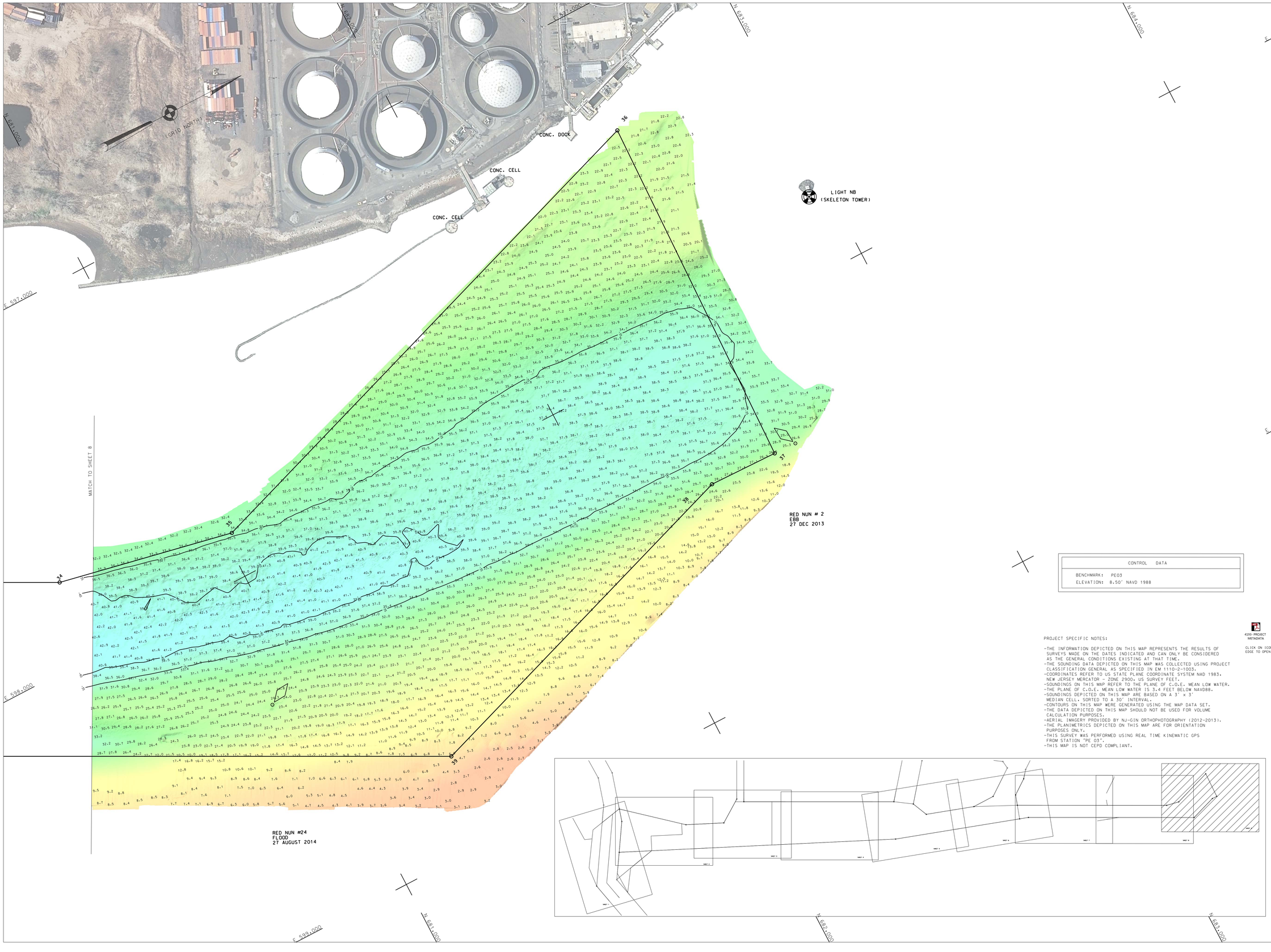
CONTROL DATA	
BENCHMARK:	PE03
ELEVATION:	8.50' NAVD 1988

4193- PROJECT
METADATA

CLICK ON ICON
EDGE TO OPEN

VH-108

SHEET 8 OF 9



CONTROL DATA	
BENCHMARK:	PE03
ELEVATION:	8.50' NAVD 1988

4193-PROJECT METADATA

CLICK ON ICON EDGE TO OPEN

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. NEW JERSEY MERCATOR - ZONE 2900. 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 3.4 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL. SORTED TO A 30' 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 NJ-GIN ORTHOPHOTOGRAPHY (2012-2013).
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "PE 03".
- THIS MAP IS NOT CEPD COMPLIANT.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ESO	PR	
TD	PR	
TD	PR	

DATES OF SURVEY:
20-22,25-27 AUGUST 2014
8,16,18,19,24 SEPTEMBER 2014

FILE NO.: 943
REQUEST NO.: 4193/D/N2/N1

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1002

APPROVED: D. SMITH/J. ABRAHAMSEN
CIVIL ENGINEERING TECHNICIAN
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN
LEAD CARTOGRAPHER

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 31 OCT 2014

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