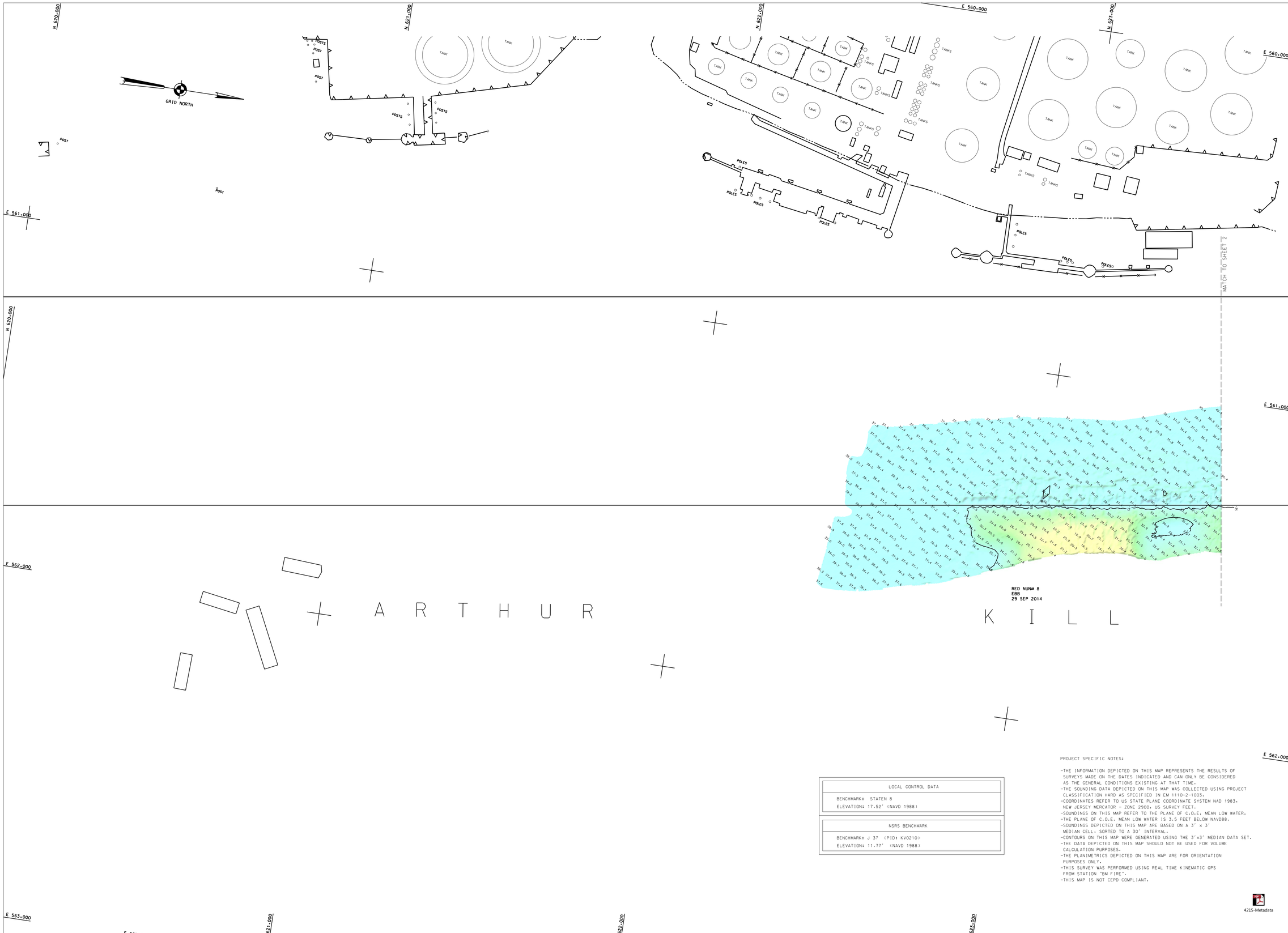

LOCAL CONTROL DATA
BENCHMARK: STATEN 8 ELEVATION: 17.52' (NAVD 1988)

NSRS BENCHMARK
BENCHMARK: J 37 (PID: KV0210) ELEVATION: 11.77' (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 HARD 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 3.5 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL. SORTED TO A 30' INTERVAL.
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- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
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- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "BM FIRE".
- THIS MAP IS NOT CEPD COMPLIANT.

4215-Metadata

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

BPH	PR	
PDC	MP	
BPH	MP	

DATES OF SURVEY:
29-30 SEP 2014
1-3 OCT 2014

FILE NO.: 1365
REQUEST NO.: 42150/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1801, 1811
1

APPROVED: D. SMITH/M. APPOLD
CHIEF, SURVEY & MAPPING BRANCH

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF MARKETS

DATE: 07 OCT 2014

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

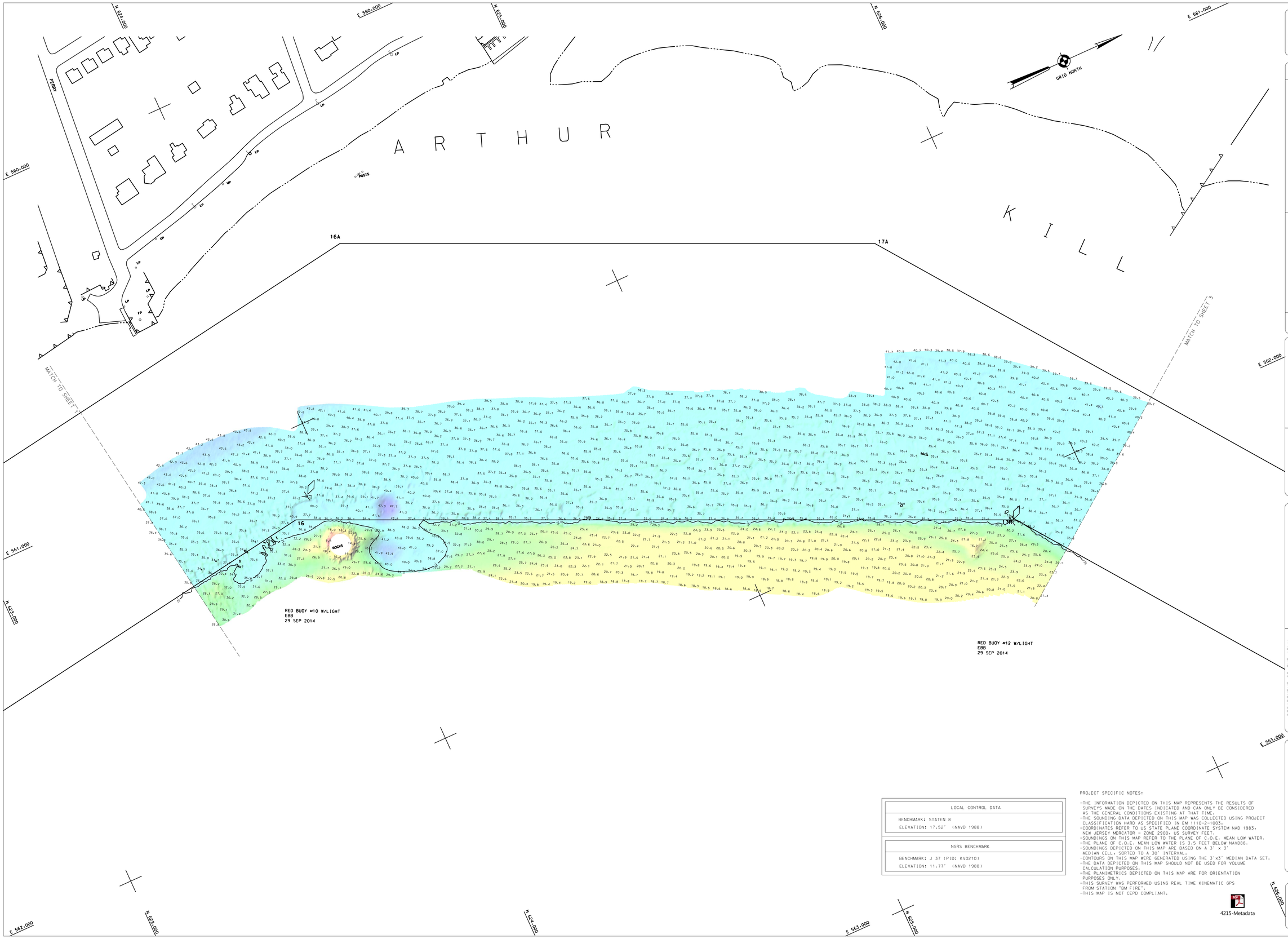
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNEL
ARTHUR KILL AND SEGUINE POINT BEND
SHOAL A2
AFTER DREDGE SURVEY

VH-101

SHEET 1 OF 3
(FORMERLY SHEET 4 OF 18)

1365
42150/N3



LOCAL CONTROL DATA
BENCHMARK: STATEN 8
ELEVATION: 17.52' (NAVD 1988)

NSRS BENCHMARK
BENCHMARK: J 37 (PID: KV0210)
ELEVATION: 11.77' (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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-COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983. NEW JERSEY MERCATOR - ZONE 2900. US SURVEY FEET.
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-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "BM FIRE".
-THIS MAP IS NOT CEPD COMPLIANT.

4215-Metadata

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

BPH	PR		
PDC	MP		
BPH	MP		

DATES OF SURVEY:
29-30 SEP 2014
1-2 OCT 2014

FILE NO.: 1365
REQUEST NO.: 4215D/N3

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1001-1011

APPROVED: D. SMITH-M. APPLD
CIVIL ENGINEERING TECHNICIAN
APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE
SURVEY SECTION CHIEF
APPROVED: J. MRAZ
SURVEY CHIEF OF SURVEYS
DATE: 07 OCT 2014

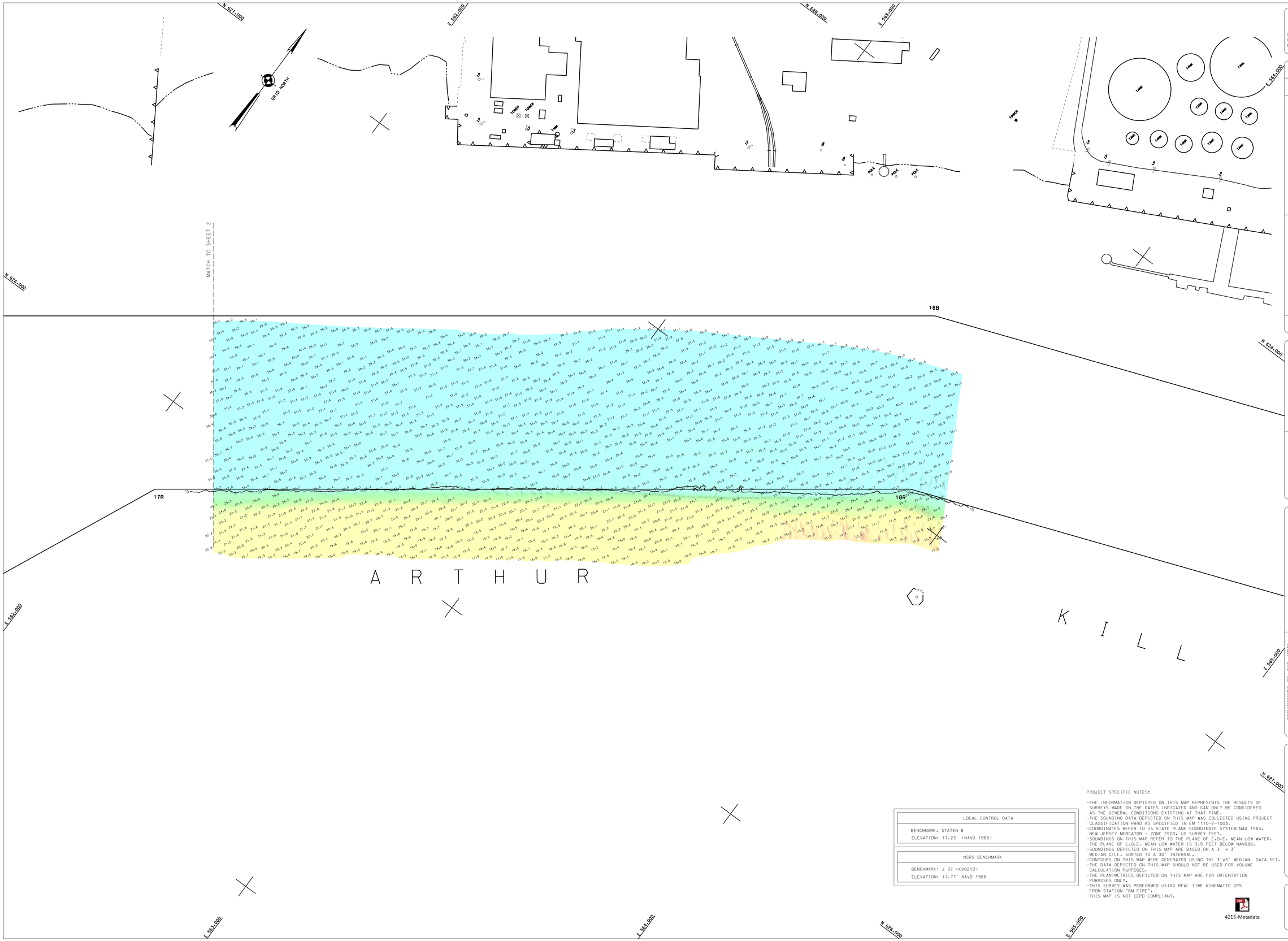
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CONAN-OPS

NEW YORK & NEW JERSEY CHANNELS
ARTHUR KILL AND SEGUINE POINT BEND
SHOAL 42
AFTER DREDGE SURVEY

VH-102

SHEET 2 OF 3
(FORMERLY SHEET 5 OF 18)



US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

	BPH	PR
	PSC	MP
	BPH	MP

DATES OF SURVEY: 23,25,29 JULY 2014

FILE NO.: 1365
PROJECT NO.: 42150N3

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 1001,1011

APPROVED: D. SMITH/M. APPELO — FIELD CARTOGRAPHER

APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE — LEAD CARTOGRAPHER

APPROVED: J. WALZ — DEPARTMENT CHIEF OF SURVEY

DATE: 07 OCT 2014

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
ARTHUR KILL AND SEGUINE POINT BEND
SHOAL A2

AFTER DREDGE SURVEY

LOCAL CONTROL DATA
BENCHMARK: STATEN 8 ELEVATION: 17.23' (NAVD 1988)

NSRS BENCHMARK
BENCHMARK: J 37 (KV0210) ELEVATION: 11.77' 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 HARD 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.
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- THE PLANE OF C.O.E. MEAN LOW WATER IS 3.5 FEET BELOW NAVD88.
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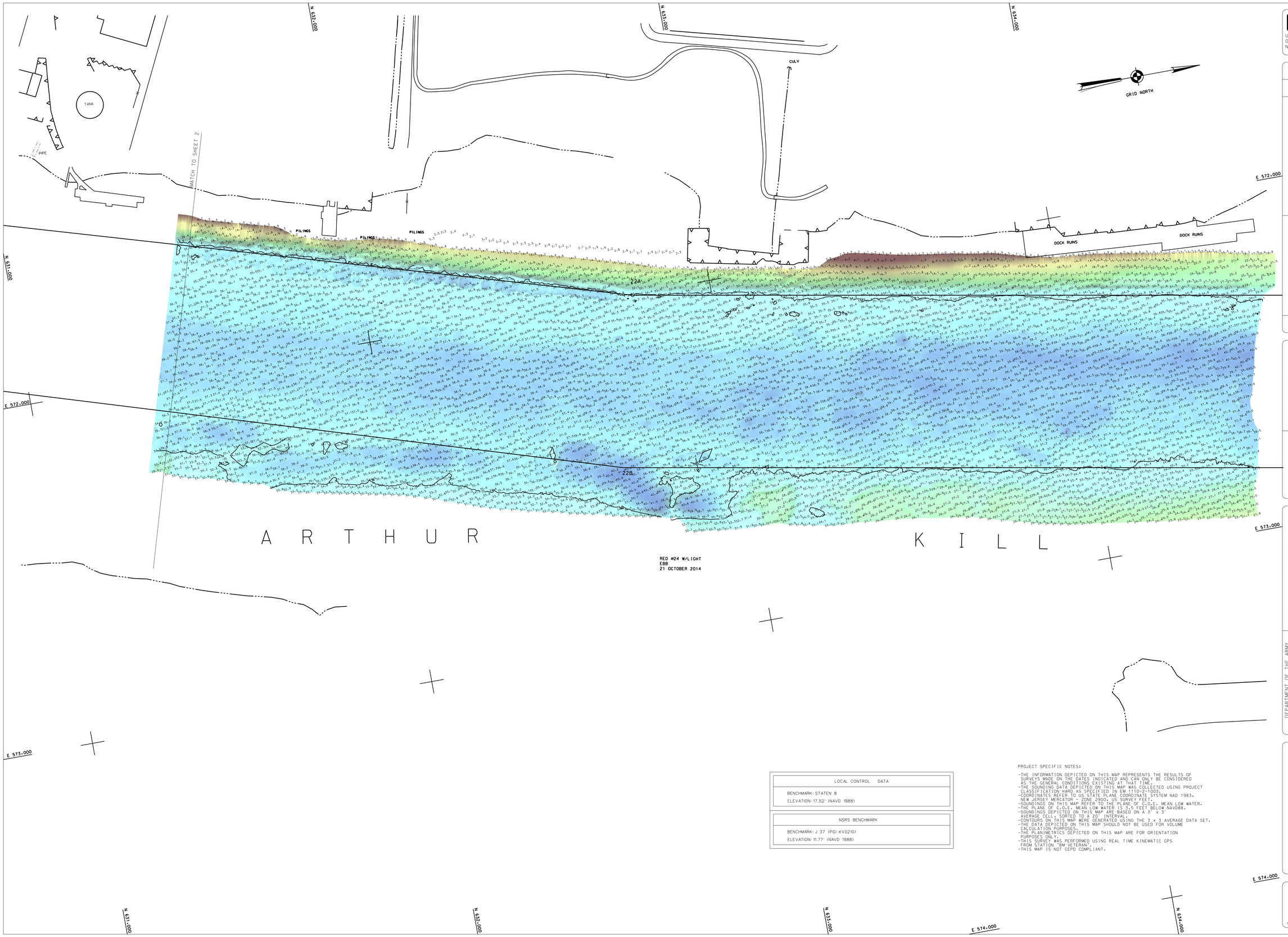
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "BM FIRE".
- THIS MAP IS NOT CEPD COMPLIANT.

4215-Metadata

VH-103

SHEET 3 OF 3
(FORMERLY SHEET 6 OF 18)

1365
42150/N3



LOCAL CONTROL DATA
BENCHMARK: STATEN 8
ELEVATION: 17.52' (NAVD 1988)

NSRS BENCHMARK
BENCHMARK: J 37 (PID: KV0210)
ELEVATION: 11.77' (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 HARD 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 3.5 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' AVERAGE CELL, SORTED TO A 20' INTERVAL.
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- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "BM VETERAN".
- THIS MAP IS NOT CEPD COMPLIANT.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

RD/TD	PR	
RD	MP	

DATES OF SURVEY: 16,20-23,27-28 OCTOBER 2014

FILE NO.: 1368
REQUEST NO.: 42220/N2

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 1072, 1016

APPROVED: D. SMITH, Jr. ARBRAMSEN
CHIEF, SURVEY BRANCH

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
CHIEF, OPERATIONS DIVISION

APPROVED: J. MRAZ
BRANCH CHIEF OF SURVEYS

DATE: 28 OCTOBER 2014

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

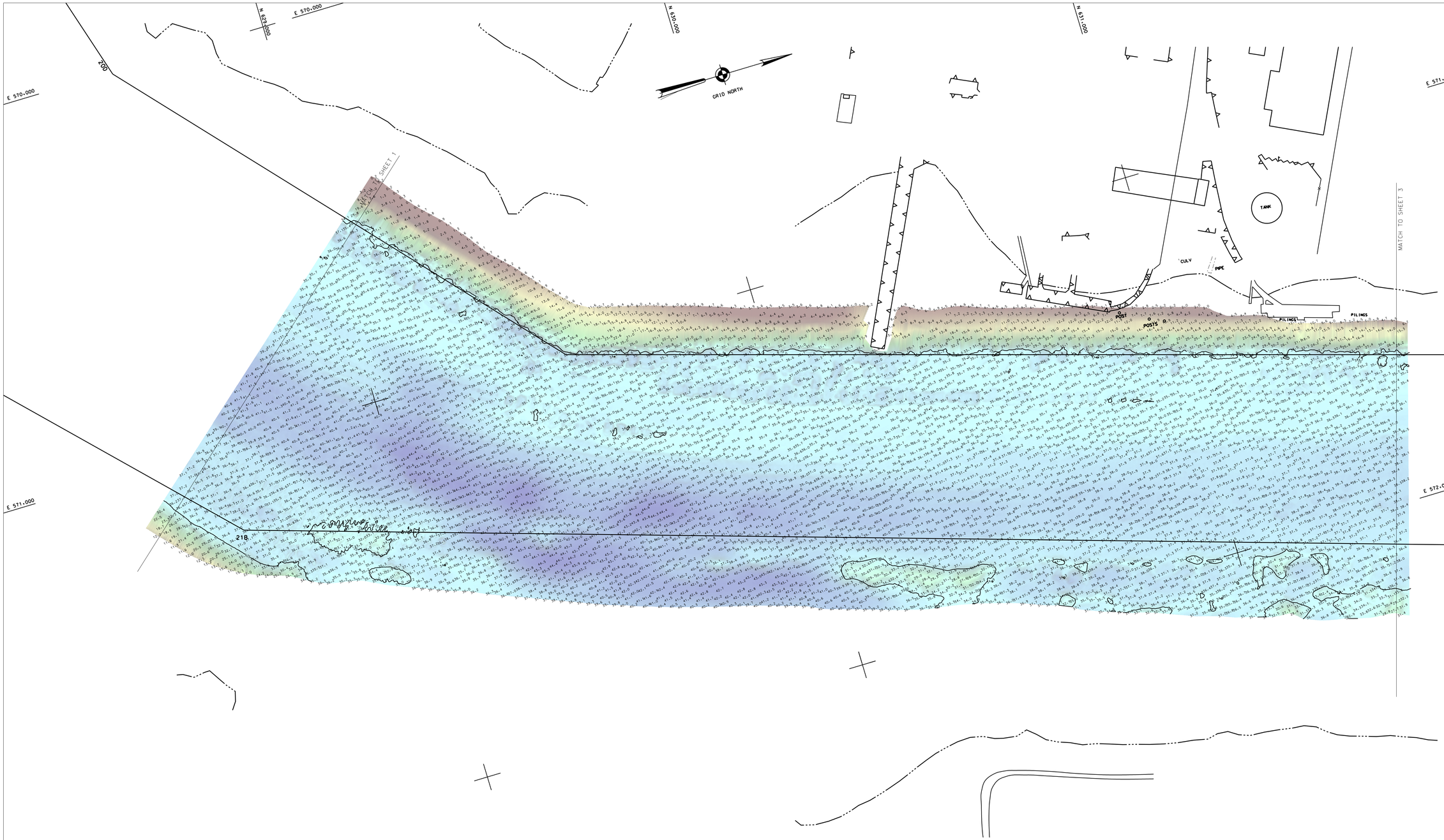
OPERATIONS DIVISION
SURVEY SECTION
CN/NN-OPS

NEW YORK & NEW JERSEY CHANNELS
ARTHUR KILL AND SEGUINE POINT BEND
SHOAL A3
AFTER DREDGE SURVEY

VH-103

SHEET 3 OF 3
(FORMERLY SHEET 10 OF 18)

1368
42220/N2



LOCAL CONTROL DATA
BENCHMARK: STATEN 8
ELEVATION: 17.52' (NAVD 1988)

NSRS BENCHMARK
BENCHMARK: J 37 (PID: KV0210)
ELEVATION: 11.77' (NAVD 1988)

PROJECT SPECIFIC NOTES:

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- COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983. NEW JERSEY MERCATOR - ZONE 2900, US SURVEY FEET.
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- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "BM VETERAN".
- THIS MAP IS NOT CEPD COMPLIANT.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

RD/TD	JPR	
RD	WP	

DATES OF SURVEY: 16-20-23,27-28 OCTOBER 2014

FILE NO: 1368
REQUEST NO: 42220/N2

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 1012, 1016

APPROVED: D. SMITH, J. ABRAHAMSEN
FIELD SURVEYOR

APPROVED: M. FORTE
SVYR TECHNICAL TECHNICIAN

APPROVED: D. CLARK
FIELD SURVEYOR

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS

DATE: 29 OCTOBER 2014

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS

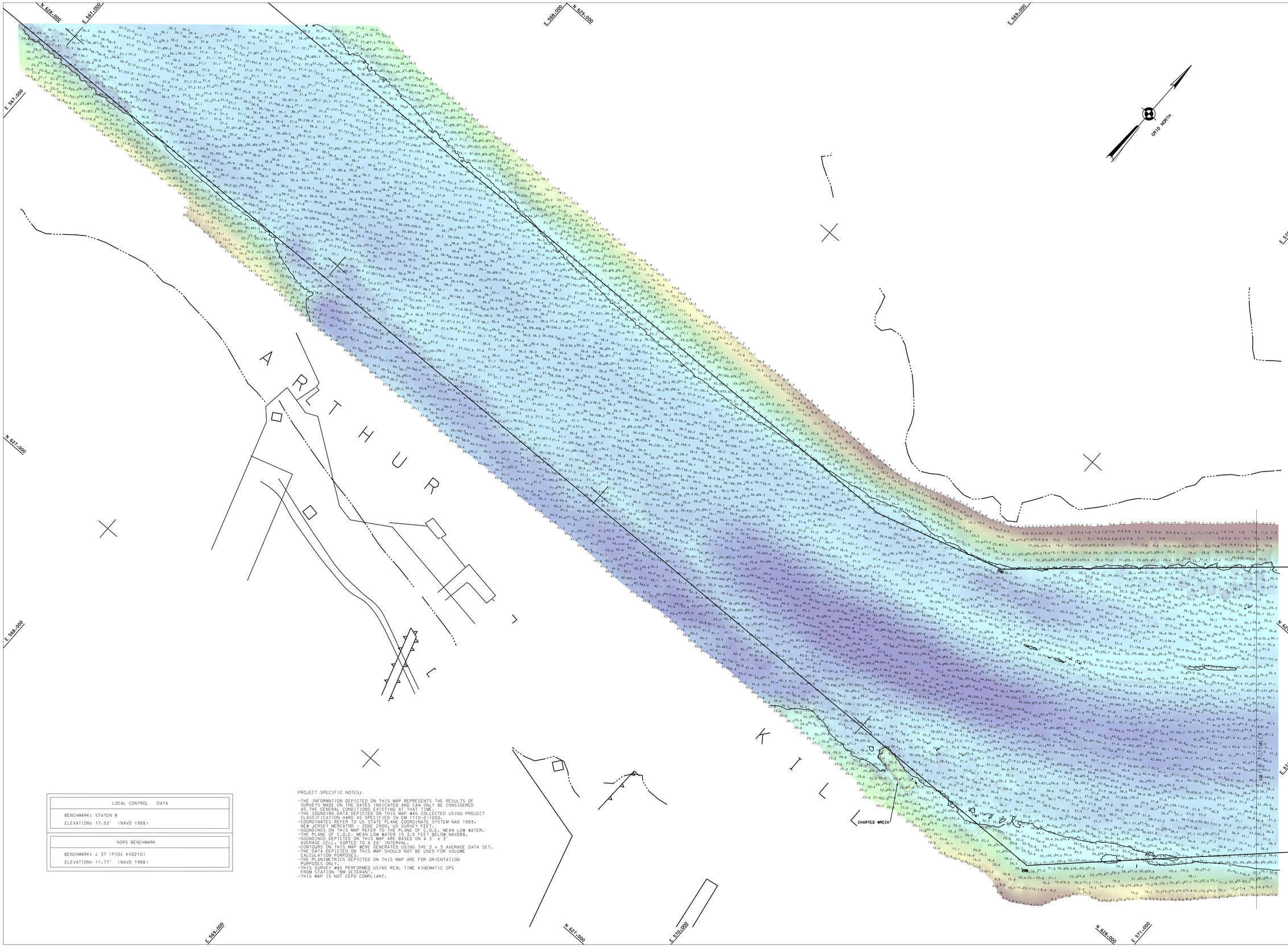
ARTHUR KILL AND SECOUINE POINT BEND
SHOAL A3

AFTER DREDGE SURVEY

VH-102

SHEET 2 OF 3
(FORMERLY SHEET 9 OF 18)

1368
4222D/N2



LOCAL CONTROL DATA
BENCHMARK: STATEN 8
ELEVATION: 17.52' (NAVD 1988)

NSRS BENCHMARK
BENCHMARK: J 37 (PID: KV0210)
ELEVATION: 11.77' (NAVD 1988)

PROJECT SPECIFIC NOTES:

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- THIS MAP IS NOT CEPD COMPLIANT.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

RD/TD PR
RD MP

DATES OF SURVEY:
16,20-23,27-28 OCTOBER 2014

FILE NO.: 1368
PROJECT NO.: 42220N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1012, 1016

APPROVED: D. SMITH / J. ABRAHAMSEN
CIVIL ENGINEERING TECHNICIAN / SUPERVISOR
APPROVED: M. FERTE
CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE
SUPERVISOR
APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS
DATE: 29 OCTOBER 2014

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

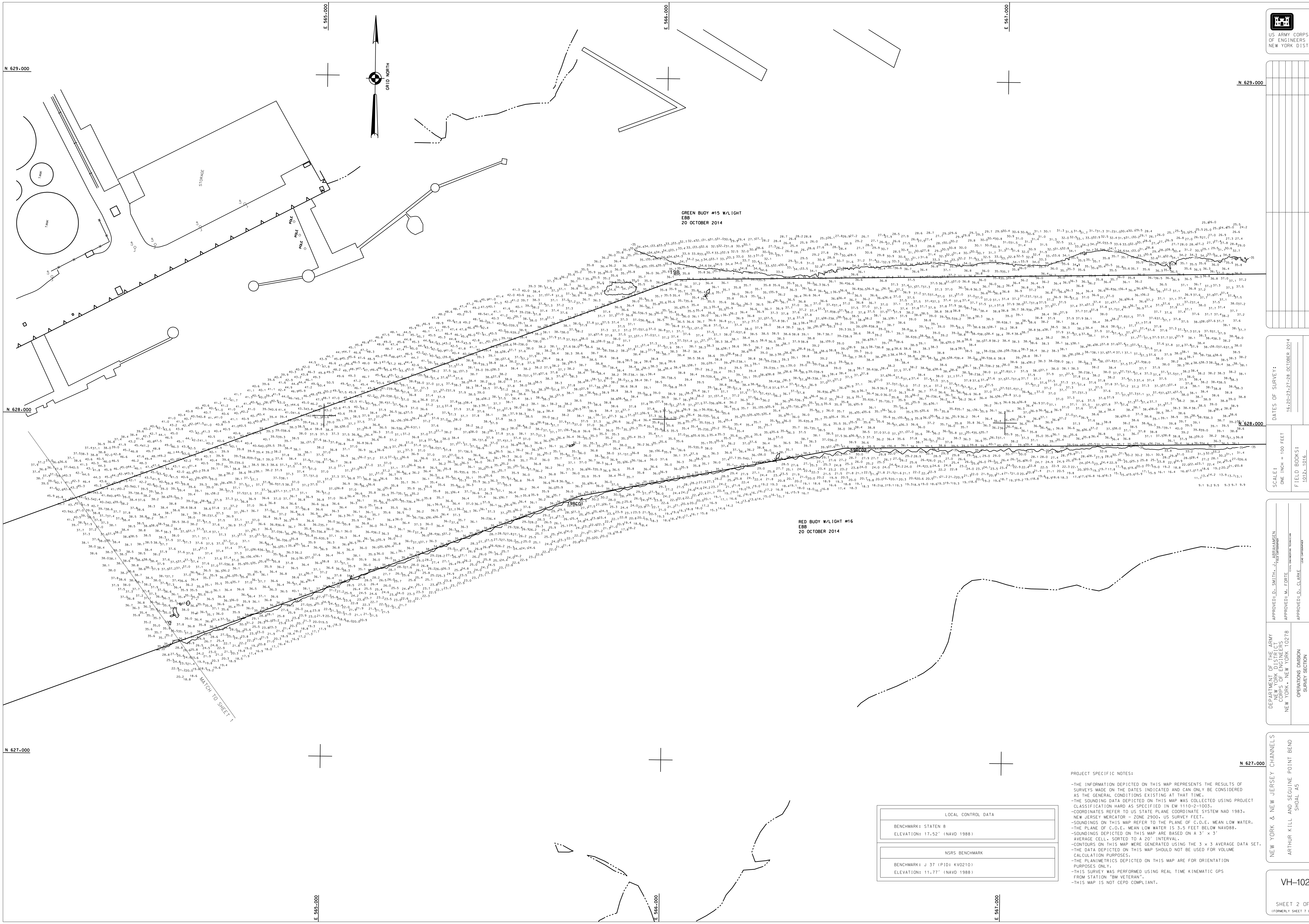
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
ARTHUR KILL AND SEGUINE POINT BEND
SHOAL A3
AFTER DREDGE SURVEY

VH-101

SHEET 1 OF 3
(FORMERLY SHEET 8 OF 18)

1368
42220/N2



LOCAL CONTROL DATA
BENCHMARK: STATEN 8
ELEVATION: 17.52' (NAVD 1988)

NSRS BENCHMARK
BENCHMARK: J 37 (PID: KV0210)
ELEVATION: 11.77' (NAVD 1988)

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- THIS MAP IS NOT CEPD COMPLIANT.

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

RD/TD JE
PR MP

DATES OF SURVEY:
16,20-23,27-28 OCTOBER 2014

FILE NO.: 1368
REQUEST NO.: 4222D/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1012, 1016

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: 29 OCTOBER 2014

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS

ARTHUR KILL AND SEGUINE POINT BEND
SHOAL A5

AFTER DREDGE SURVEY

VH-102

SHEET 2 OF 2
(FORMERLY SHEET 7 OF 18)

1368
4222D/N2

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	RD/TD	PR
		SNP
	RD	

DATES OF SURVEY:
16,20-23,27-28 OCTOBER 2014

FILE NO.: 1368
PROJECT NO.: 42220/N2

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
1012, 1016

APPROVED: D. SMITH J. ABRAHAMSEN
FIELD SURVEYMASTER
APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE
LEAD CARTOGRAPHER
APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS
DATE: 29 OCTOBER 2014.

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
ARTHUR KILL AND SEGUINE POINT BEND
SHOAL A5

AFTER DREDGE SURVEY

VH-101

SHEET 1 OF 2
(FORMERLY SHEET 6 OF 18)

LOCAL CONTROL DATA
BENCHMARK: STATEN 8 ELEVATION: 17.52' (NAVD 1988)

NSRS BENCHMARK
BENCHMARK: J 37 (PID: KV0210) ELEVATION: 11.77' (NAVD 1988)

PROJECT SPECIFIC NOTES:

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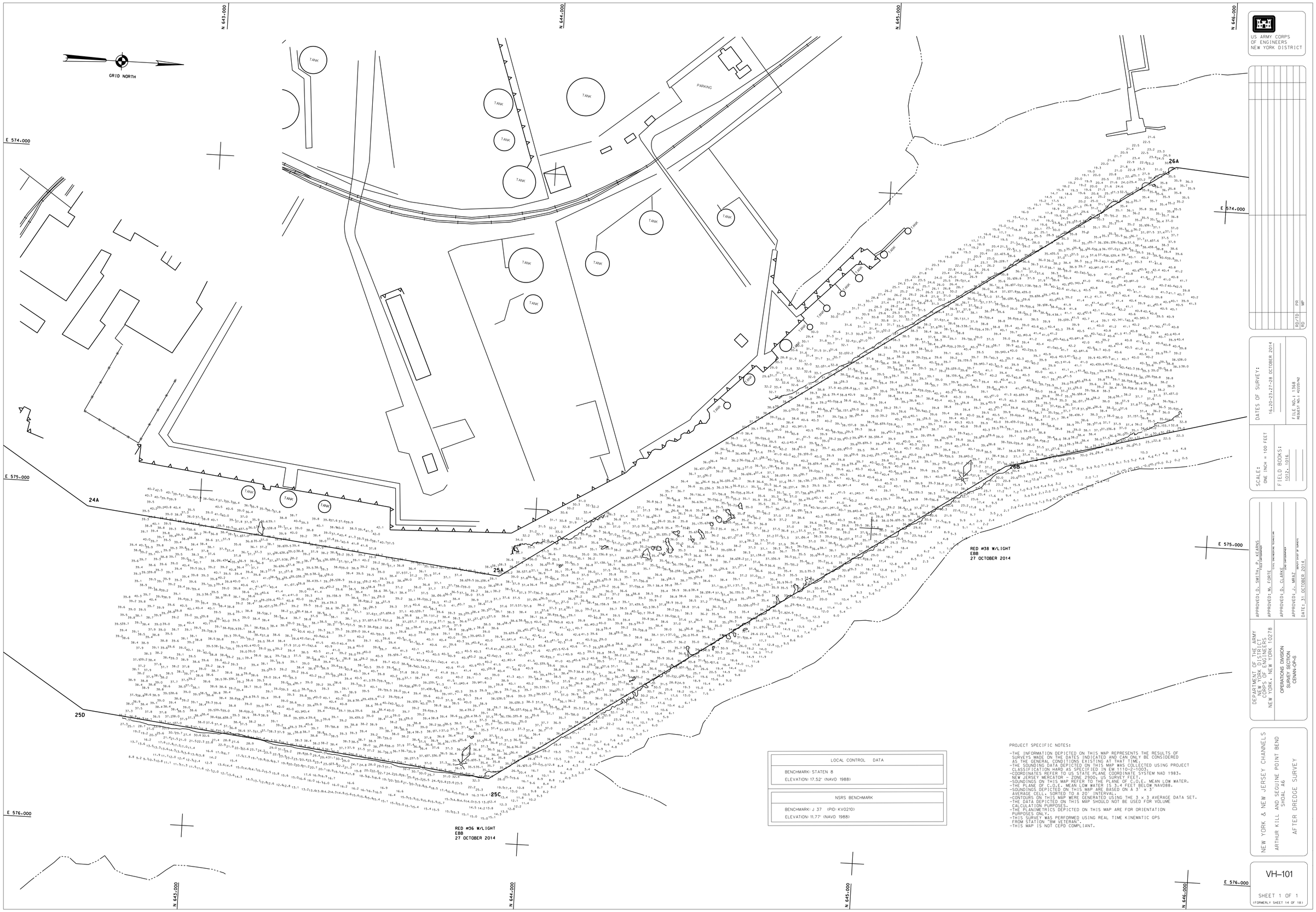

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

		RD/TD	PR
		RD	WP

DATES OF SURVEY: 16,20-23,27-28 OCTOBER 2014

FILE NO.: 1368
REQUEST NO.: 4222D/N2

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 1592, 1610

APPROVED: D. SMITH, R. HEARNS
CHIEF, HYDROGRAPHIC SURVEY BRANCH

APPROVED: M. FORTE
CHIEF, NAVIGATION SECTION

APPROVED: D. CLARKE
CHIEF, OPERATIONS DIVISION, SURVEY CONTROL

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS

DATE: 31 OCTOBER 2014

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
26 FEDERAL PLAZA
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LOCAL CONTROL DATA
BENCHMARK: STATEN 8
ELEVATION: 17.52' (NAVD 1988)

NSRS BENCHMARK
BENCHMARK: J 37 (PID: KV0210)
ELEVATION: 11.77' (NAVD 1988)

PROJECT SPECIFIC NOTES:

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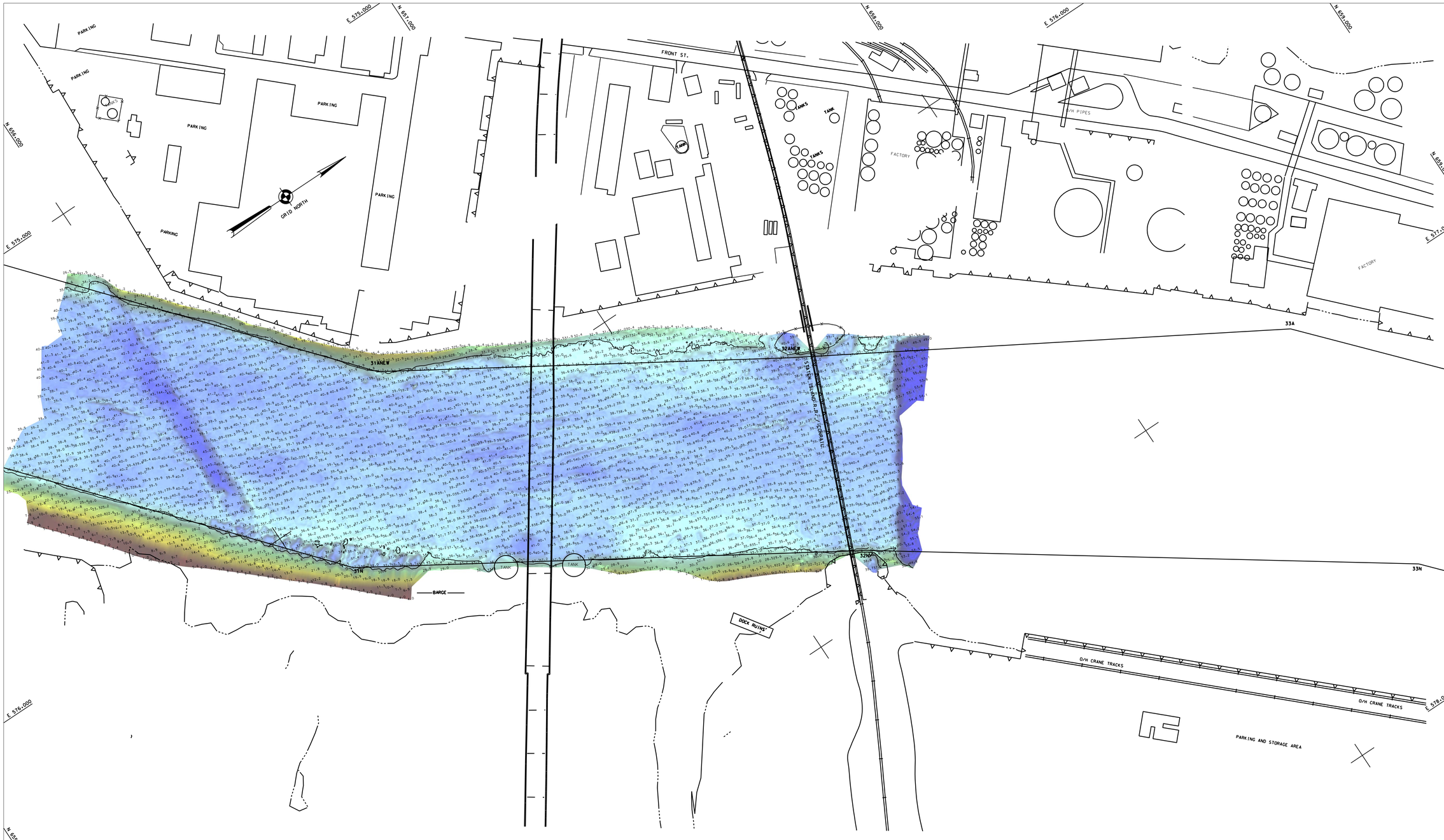
NEW YORK & NEW JERSEY CHANNELS

ARTHUR KILL AND SEGUINE POINT BEND
SHOAL A6

AFTER DREDGE SURVEY

VH-101

SHEET 1 OF 1
(FORMERLY SHEET 14 OF 18)



LOCAL CONTROL DATA
BENCHMARK: AJD 10026
ELEVATION: 7.14' (NAVD 1988)

NSRS BENCHMARK
BENCHMARK: R 37 (PID:KV0234)
ELEVATION: 32.45' (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 HARD 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 15' INTERVAL.
-CONTOURS ON THIS MAP WERE GENERATED USING THE 3 x 3 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 "ELIZ PARK VAULT".
-THIS MAP IS NOT CEPD COMPLIANT.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

RD	PR	
RD	MP	

DATES OF SURVEY:
16-20-23-27-28 OCTOBER 2014

SCALE:
ONE INCH = 100 FEET

FILE NO.: 1368
REQUEST NO.: 4222D/N2

FIELD BOOKS:
1012 - 1016

APPROVED: D. SMITH, P. KEIRNS
CHIEF, SURVEY & MAPPING BRANCH

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
CHIEF, CARTOGRAPHY

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS

31 OCTOBER 2014

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
ARTHUR KILL
SHOAL A8
AFTER DREDGE SURVEY

VH-101

SHEET 1 OF 1
(FORMERLY SHEET 18 OF 18)

1368
4222D/N2

LOCAL CONTROL DATA
BENCHMARK: STATEN 8
ELEVATION: 17.52′ (NAVD 1988)

NSRS BENCHMARK
BENCHMARK: J 37 (PID: KV0210)
ELEVATION: 11.77′ (NAVD 1988)

4215-Metadata

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 HARD 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′×3′ MEDIAN CELL, SORTED TO A 25′ INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 3′×3′ MEDIAN 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 "BM FIRE".
- THIS MAP IS NOT CEPD COMPLIANT.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PDC	PR	
BPH	PR	
PDC	MP	

DATES OF SURVEY: 29-30 SEPT, 1-3 OCT 2014

FILE NO.: 1365
REQUEST NO.: 42150/N3

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 1001-1011

APPROVED: M. APPELBAUM, SMITH
CHIEF, ENGINEERING DIVISION

APPROVED: M. FORTE
CHIEF, ENGINEERING SECTION

APPROVED: D. CLARKE
CHIEF, SURVEY SECTION

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS

DATE: 08 OCTOBER 2014

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

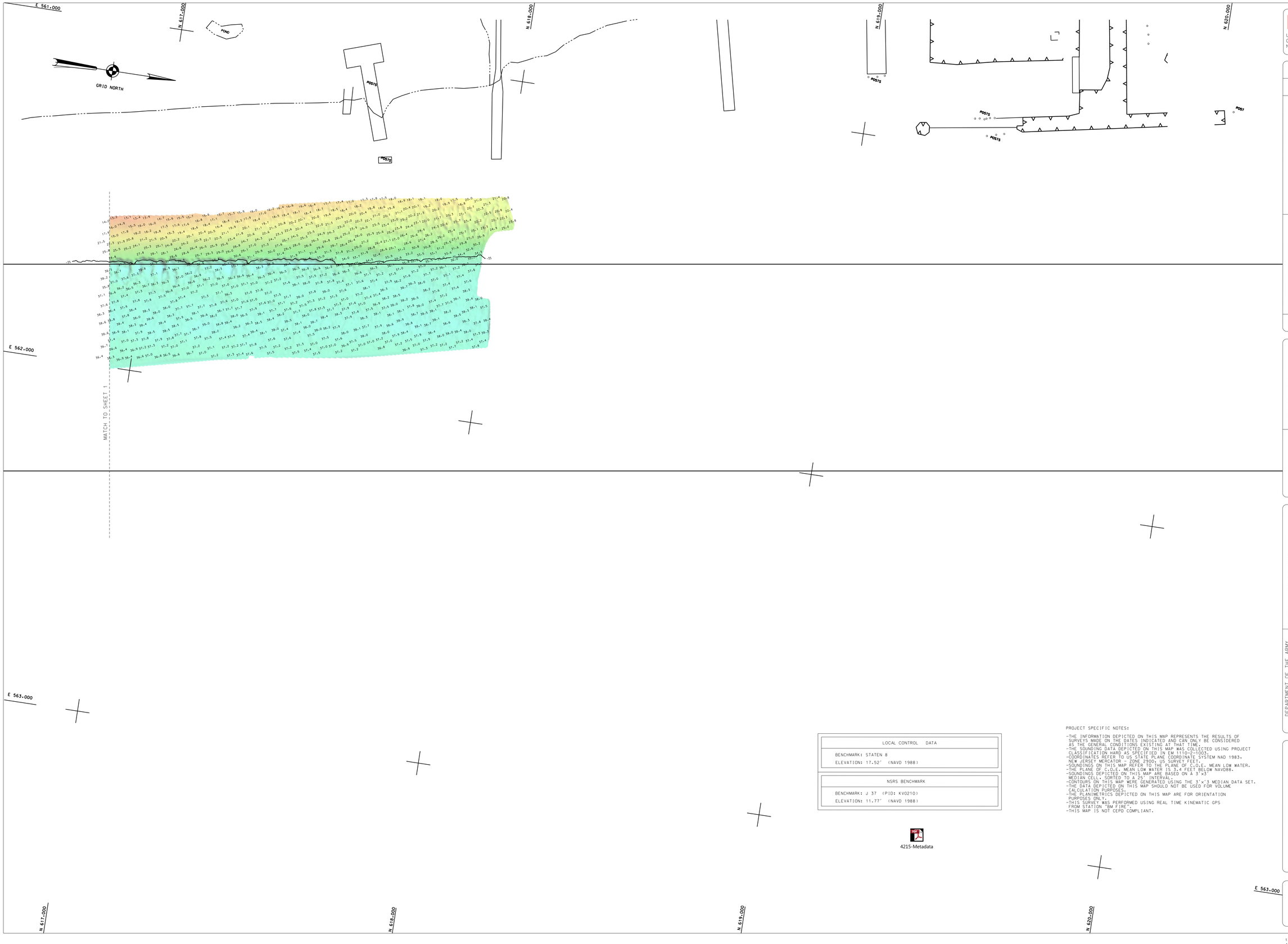
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS
ARTHUR KILL AND SEGUINE POINT BEND
SHOAL A4
AFTER DREDGE SURVEY

VH–101

SHEET 1 OF 2
(FORMERLY SHEET 2 OF 18)

1365
42150/N3



LOCAL CONTROL DATA
BENCHMARK: STATEN 8
ELEVATION: 17.52' (NAVD 1988)

NSRS BENCHMARK
BENCHMARK: J 37 (PID: KV0210)
ELEVATION: 11.77' (NAVD 1988)

4215-Metadata

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 HARD 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'x3' MEDIAN CELL, SORTED TO A 25' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 3'x3' MEDIAN 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 "BM FIRE".
- THIS MAP IS NOT CEPD COMPLIANT.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

PDC	BPH	PDC
PR	PR	MP

DATES OF SURVEY: 29-30 SEPT, 1-3 OCT 2014

FILE NO.: 1365
REQUEST NO.: 42150/N3

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 1001-1011

APPROVED: M. APPEL D/O SMITH
CHIEF, SURVEYS

APPROVED: M. FORTE
CHIEF, HYDROGRAPHIC TECHNICIAN

APPROVED: D. CLARKE
CHIEF, OPERATIONS DIVISION

APPROVED: J. MRAZ
CHIEF, SURVEY SECTION

DATE: 08 OCTOBER 2014

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NEW YORK & NEW JERSEY CHANNELS

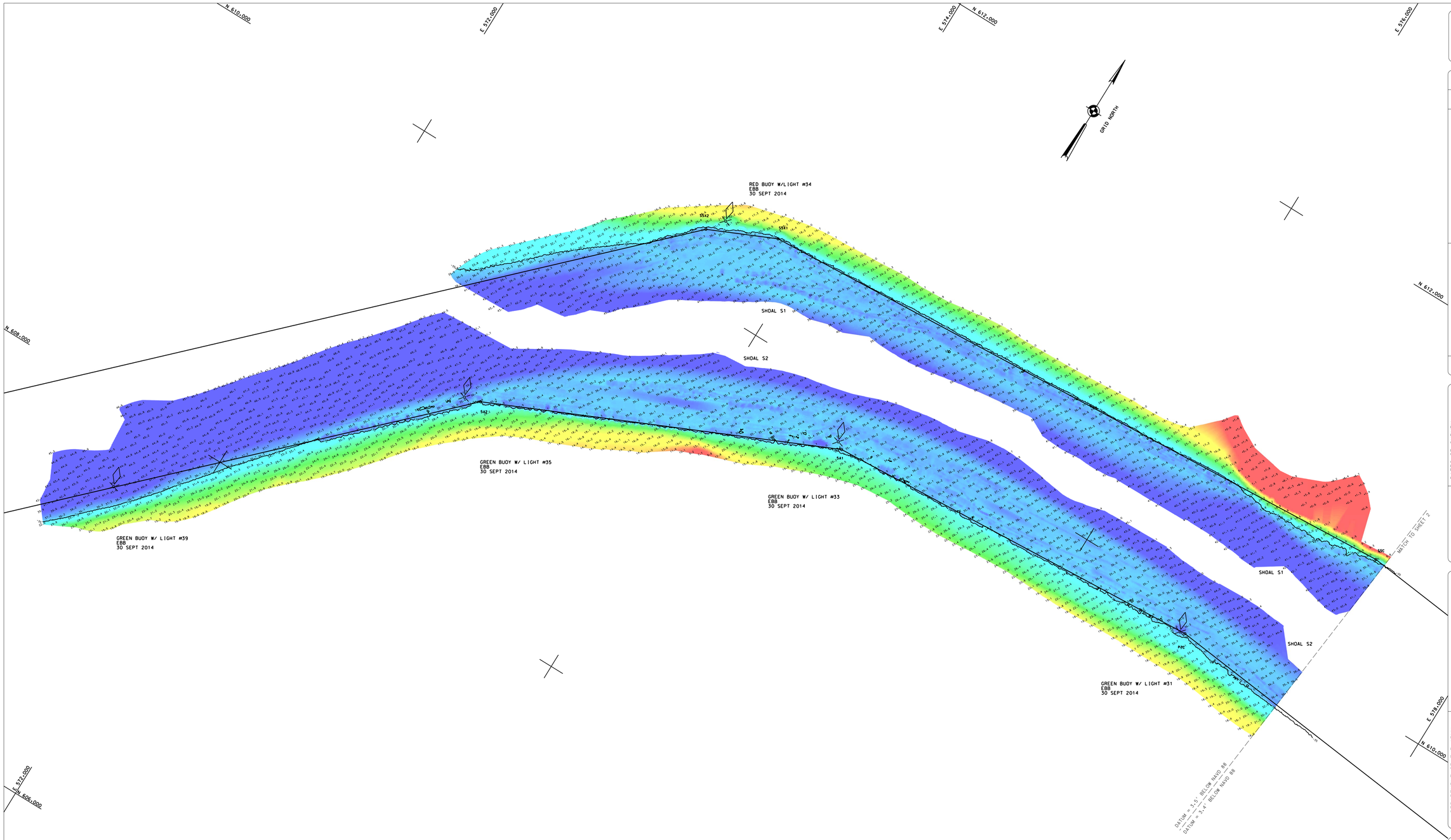
ARTHUR KILL AND SEGUINE POINT BEND
SHOAL A4

AFTER DREDGE SURVEY

VH-102

SHEET 2 OF 2
(FORMERLY SHEET 3 OF 18)

1365
4215D/N3



LOCAL CONTROL DATA
BENCHMARK: AJD 10024
ELEVATION: 13.02' NAVD 1988

NSRS BENCHMARK
BENCHMARK: B5 (PID: KV0006)
ELEVATION: 63.49' 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 HARD 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 3.5 FEET BELOW NAVD88.
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON THE 3'x3' MEDIAN DATA SET. SORTED TO A 45' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 3'x3' MEDIAN DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "BM FIRE".

4215-Metadata

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PDC	PR	
BPH	PR	
PDC	MP	

DATES OF SURVEY:
29-30 SEPT, 1-3,6 OCT 2014

FILE NO.: 1366
REQUEST NO.: 4215D/N2/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1011,1012

APPROVED: D. SMITH/M. APPELD
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CHIEF, ENGINEERING SECTION

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
BRANCH CHIEF OF SURVEY

DATE: 10 OCTOBER 2014

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

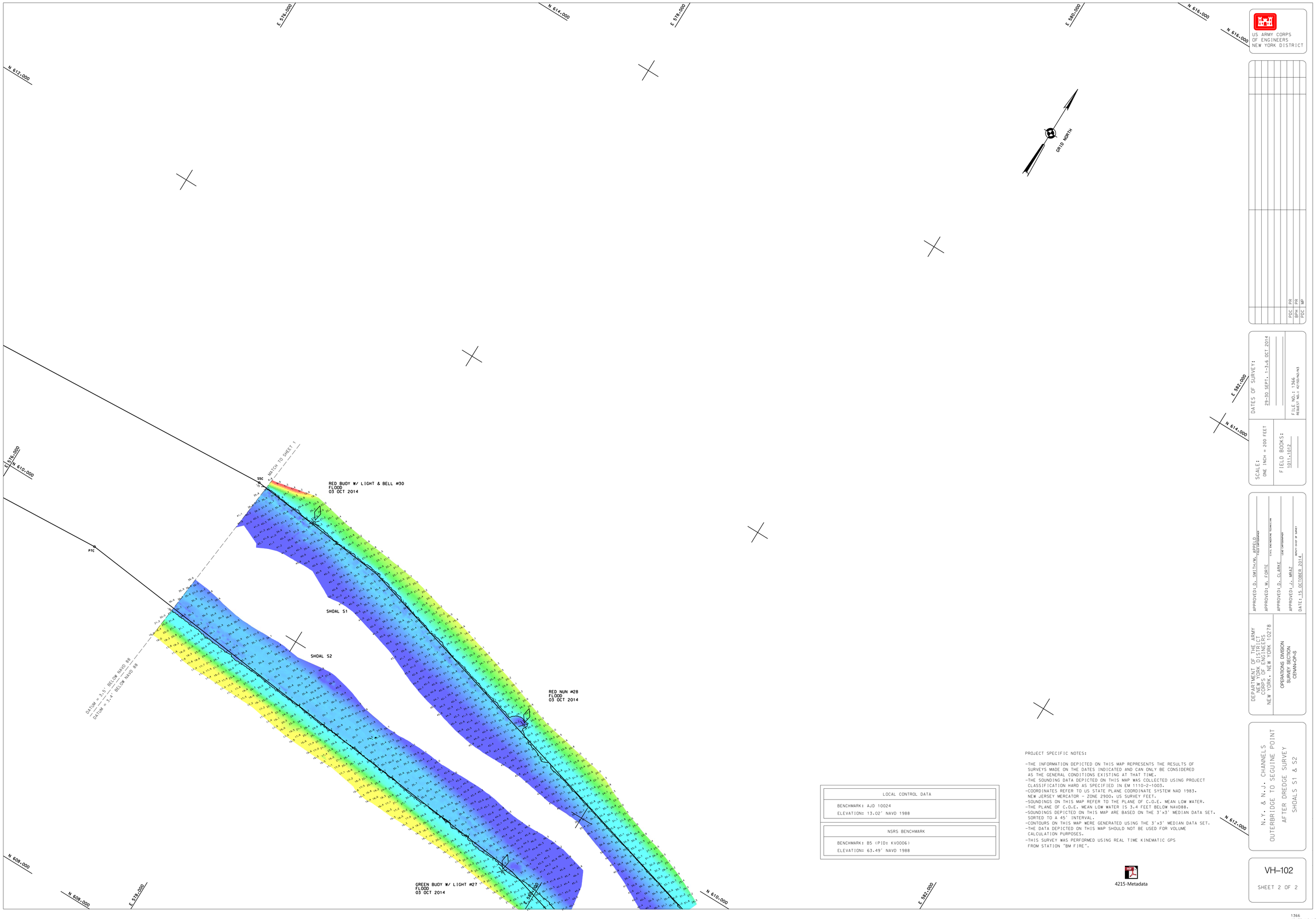
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

N.Y. & N.J. CHANNELS
OUTERBRIDGE TO SEGUINE POINT
AFTER DREDGE SURVEY
SHOALS S1 & S2

VH-101

SHEET 1 OF 2

1366
4215D/N2/N3



LOCAL CONTROL DATA
BENCHMARK: AJD 10024
ELEVATION: 13.02' NAVD 1988

NSRS BENCHMARK
BENCHMARK: B5 (PID: KV0006)
ELEVATION: 63.49' 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 HARD 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 THE 3'x3' MEDIAN DATA SET. SORTED TO A 45' INTERVAL.
- CONTOURS ON THIS MAP WERE GENERATED USING THE 3'x3' MEDIAN DATA SET.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "BM FIRE".

4215-Metadata

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

PDC	PR	
BPH	PR	
PDC	MP	

DATES OF SURVEY:
29-30 SEPT, 1-3,6 OCT 2014

FILE NO.: 1366
REQUEST NO.: 4215D/NZ/N3

SCALE:
ONE INCH = 200 FEET

FIELD BOOKS:
1011,1012

APPROVED: D. SMITH/M. APPELD
FIELD CARTOGRAPHER
APPROVED: M. FORTE
FIELD ENGINEERING SUPERVISOR
APPROVED: D. CLARKE
LEAD CARTOGRAPHER
APPROVED: J. MRAZ
BRANCH CHIEF OF SURVEY
DATE: 15 OCTOBER 2014

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

N.Y. & N.J. CHANNELS
OUTERBRIDGE TO SEGUINE POINT
AFTER DREDGE SURVEY
SHOALS S1 & S2

VH-102

SHEET 2 OF 2