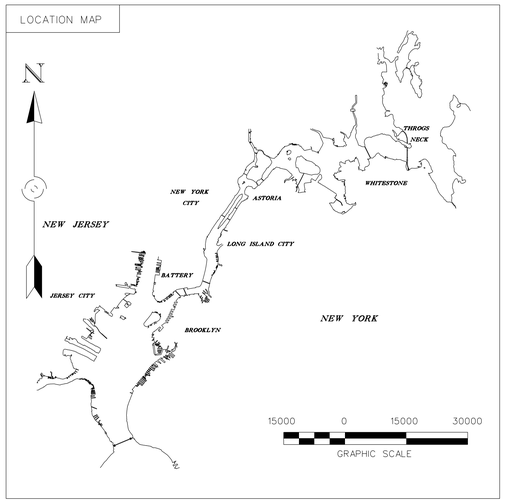
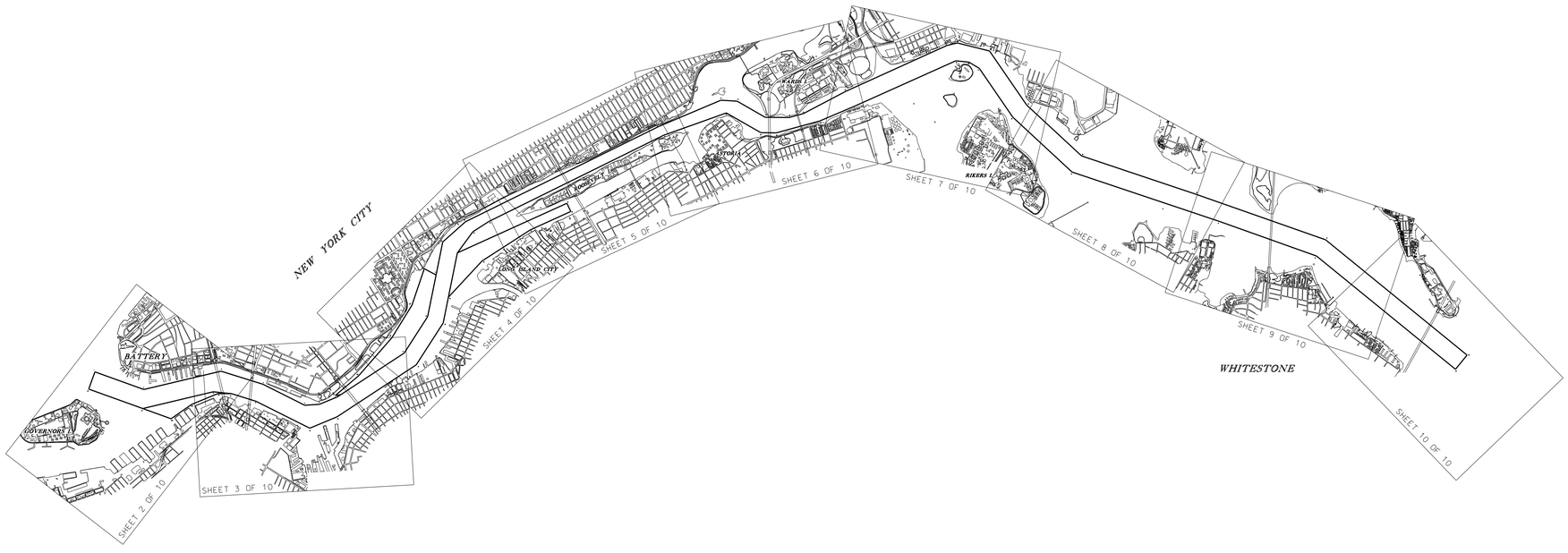
EAST RIVER, N.Y.

BATTERY TO THROGS NECK BRIDGE

CONDITION SURVEY

LOCATION MAP





US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

EQ	PR	
DC	WP	

DATES OF SURVEY: 22 OCT-26 NOV 2018

FILE NO.: 195
REQUEST NO.: 4767/D

SCALE: ONE INCH = 3000 FEET

FIELD BOOKS: N/A

APPROVED: GEORGE L. K. KEARNS, P.E. CIVIL ENGINEERING TECHNICIAN

APPROVED: M. FORTE HYDROGRAPHIC SURVEYS

APPROVED: D. CLARKE CHIEF CARTOGRAPHER

APPROVED: J. MRAZ DEPUTY CHIEF OF SURVEY

DATE: 18 DECEMBER 2018

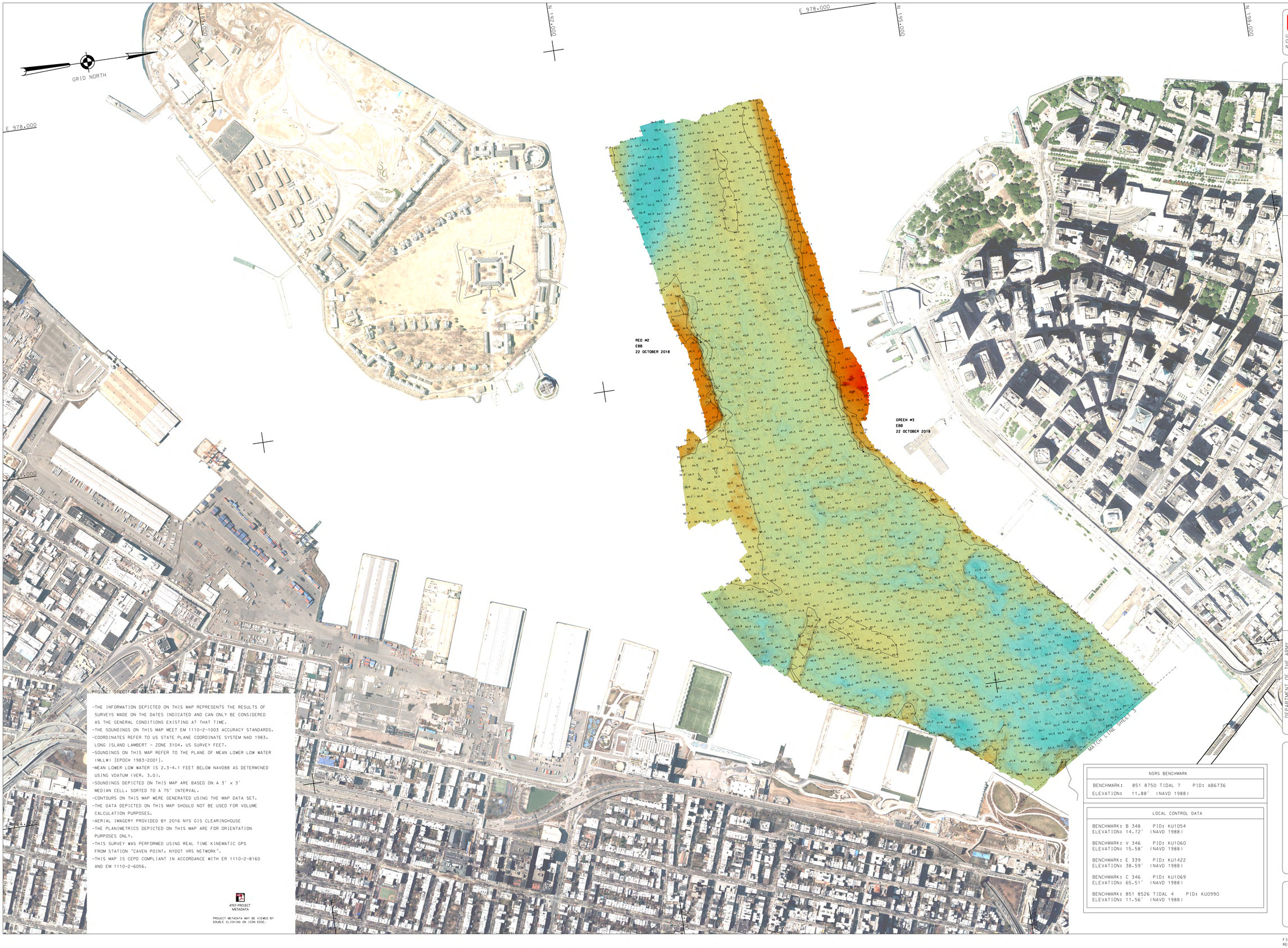
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST RIVER, NEW YORK
BATTERY TO
THROGS NECK BRIDGE
CONDITION SURVEY

VH-101

SHEET 1 OF 10



PROJECT SPECIFICATIONS

- 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 SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
- 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 (MLLW) [EPOCH 1983-2001].
- MEAN LOWER LOW WATER IS 2.3-4.1 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.0).
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL. SORTED TO A 75' 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 2016 NYS GIS CLEARINGHOUSE
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT. NYDOT VRS NETWORK".
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

4767-PROJECT METADATA

PROJECT METADATA MAY BE VIEWED BY DOUBLE CLICKING ON ICON EDGE.

NSRS BENCHMARK	
BENCHMARK:	851 8750 TIDAL 7 PID: AB6736
ELEVATION:	11.88' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: B 348 PID: KU1054
ELEVATION: 14.72' (NAVD 1988)
BENCHMARK: V 346 PID: KU1060
ELEVATION: 15.58' (NAVD 1988)
BENCHMARK: E 339 PID: KU1422
ELEVATION: 38.59' (NAVD 1988)
BENCHMARK: C 346 PID: KU1069
ELEVATION: 65.51' (NAVD 1988)
BENCHMARK: 851 8526 TIDAL 4 PID: KU0990
ELEVATION: 11.56' (NAVD 1988)

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

	EO	PR
	DC	MP

DATES OF SURVEY:
22 OCT-26 NOV 2018

FILE NO.: 195
REQUEST NO.: 4767/0

SCALE:
ONE INCH = 300 FEET

FIELD BOOKS:
N/A

APPROVED: L. GEORGE, P. KEARNS
CHIEF, SURVEY & MAPPING BRANCH

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. NRAZ
SENIOR CHIEF OF SURVEY

DATE: 18 DECEMBER 2018

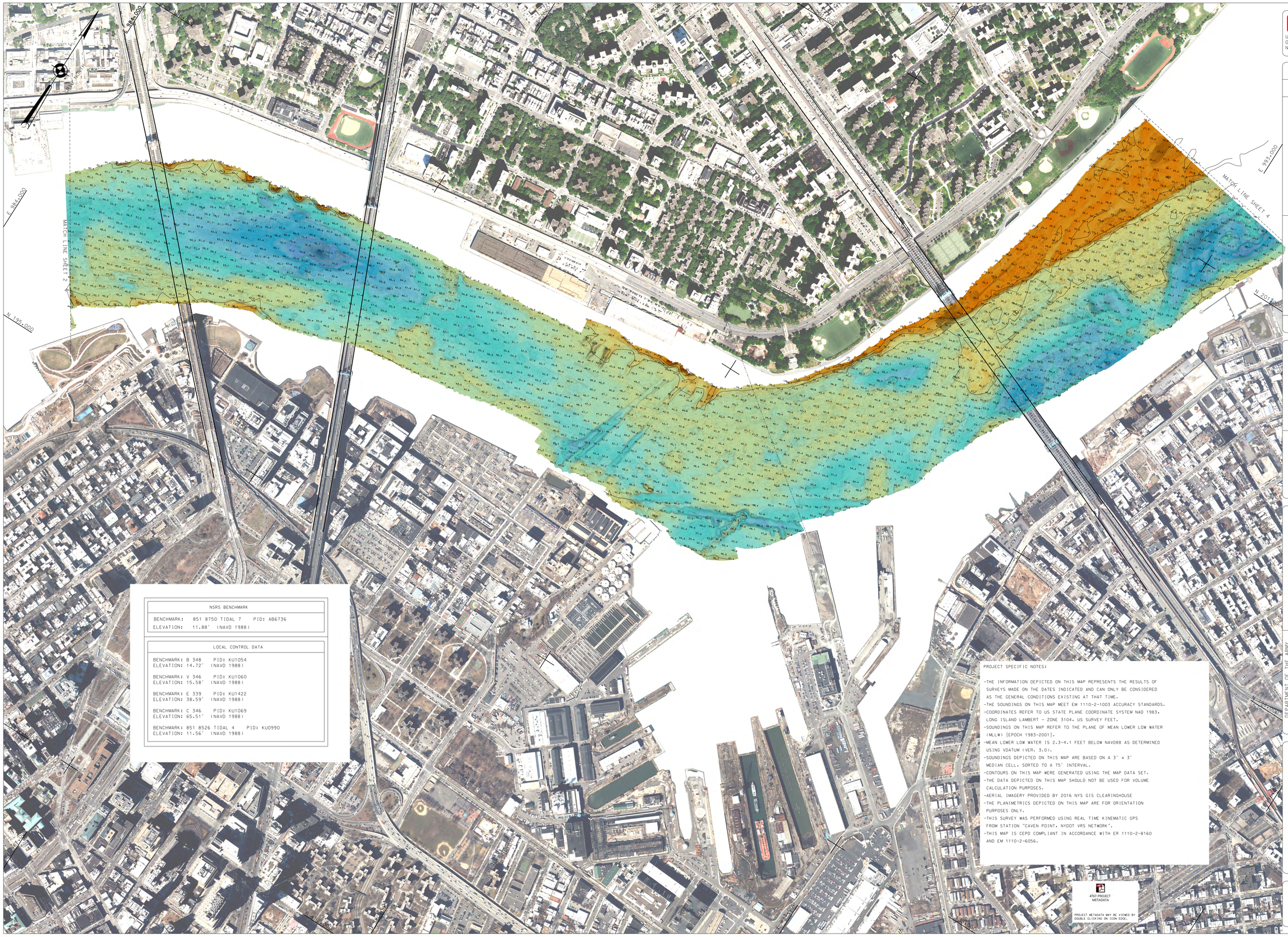
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-N

EAST RIVER, NEW YORK
BATTERY TO THROGS NECK BRIDGE
CONDITION SURVEY

VH-102

SHEET 2 OF 10



NSRS BENCHMARK		
BENCHMARK:	851 8750 TIDAL 7	PID: AB6736
ELEVATION:	11.88' (NAVD 1988)	

LOCAL CONTROL DATA	
BENCHMARK: B 348 ELEVATION: 14.72' (NAVD 1988)	PID: KU1054
BENCHMARK: V 346 ELEVATION: 15.58' (NAVD 1988)	PID: KU1060
BENCHMARK: E 339 ELEVATION: 38.59' (NAVD 1988)	PID: KU1422
BENCHMARK: C 346 ELEVATION: 65.51' (NAVD 1988)	PID: KU1069
BENCHMARK: 851 8526 TIDAL 4 ELEVATION: 11.56' (NAVD 1988)	PID: KU0990

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 SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
- 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 (MLLW) [EPOCH 1983-2001].
- MEAN LOWER LOW WATER IS 2.3-4.1 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.0).
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL. SORTED TO A 75' 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 2016 NYS GIS CLEARINGHOUSE
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT, NYDOT VRS NETWORK".
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

4767-PROJECT METADATA

PROJECT METADATA MAY BE VIEWED BY DOUBLE CLICKING ON ICON EDGE.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

EQ PR
DC KP

DATES OF SURVEY:
22 OCT-26 NOV 2018

FILE NO.: 195
REQUEST NO.: 4767/D

SCALE:
ONE INCH = 300 FEET

FIELD BOOKS:
N/A

APPROVED: L. GEORGE, P. WEIDING
CHIEF, CONSTRUCTION & ENGINEERING SUPPORT BRANCH

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 18 DECEMBER 2018

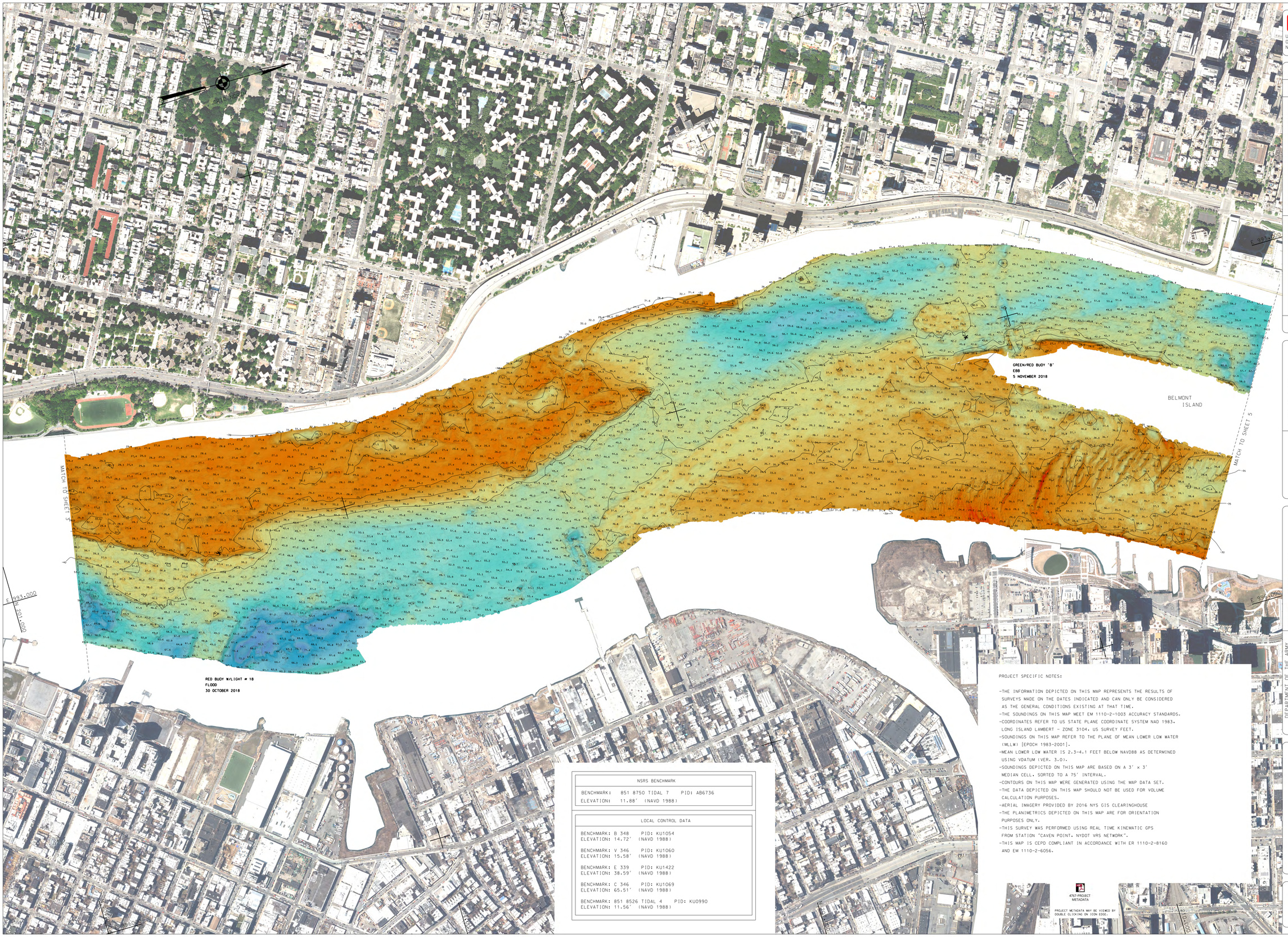
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST RIVER, NEW YORK
BATTERY TO THROGS NECK BRIDGE
CONDITION SURVEY

VH-103

SHEET 3 OF 10



NSRS BENCHMARK	
BENCHMARK: 851 8750 TIDAL 7	PID: AB6736
ELEVATION: 11.88′ (NAVD 1988)	

LOCAL CONTROL DATA	
BENCHMARK: B 348	PID: KU1054
ELEVATION: 14.72′ (NAVD 1988)	
BENCHMARK: V 346	PID: KU1060
ELEVATION: 15.58′ (NAVD 1988)	
BENCHMARK: E 339	PID: KU1422
ELEVATION: 38.59′ (NAVD 1988)	
BENCHMARK: C 346	PID: KU1069
ELEVATION: 65.51′ (NAVD 1988)	
BENCHMARK: 851 8526 TIDAL 4	PID: KU0990
ELEVATION: 11.56′ (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 SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
-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 (MLLW) [EPOCH 1983-2001].
-MEAN LOWER LOW WATER IS 2.3-4.1 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.0).
-SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3′ x 3′ MEDIAN CELL, SORTED TO A 75′ 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 2016 NYS GIS CLEARINGHOUSE
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT, NYDOT VRS NETWORK".
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

4767-PROJECT METADATA

PROJECT METADATA MAY BE VIEWED BY DOUBLE CLICKING ON ICON EDGE.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

	EQ	PR
	DC	MP

DATES OF SURVEY:
22 OCT-26 NOV 2018

FILE NO.: 195
REQUEST NO.: 4767/D

SCALE:
ONE INCH = 300 FEET

FIELD BOOKS:
N/A

APPROVED: L. L. GEORGE, P. E/LS/LA
CHIEF, ENGINEERING DIVISION

APPROVED: M. FORTE
CHIEF, ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
BRANCH CHIEF OF SURVEY

DATE: 18 DECEMBER 2018

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST RIVER, NEW YORK
BATTERY TO
THROGS NECK BRIDGE
CONDITION SURVEY

VH-104

SHEET 4 OF 10

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

EO PR
DC MP

DATES OF SURVEY:
22 OCT-26 NOV 2018

FILE NO.: 195
REQUEST NO.: 4767/D

SCALE:
ONE INCH = 300 FEET

FIELD BOOKS:
N/A

APPROVED: L. GEORGE, P. KEARNS
CHIEF, FIELD EXPLORATION

APPROVED: M. FORTE
CHIEF, HYDROGRAPHIC TECHNICIAN

APPROVED: D. CLARKE
CHIEF, CARTOGRAPHY

APPROVED: J. MRAZ
CHIEF, DIVISION OF SURVEY

DATE: 18 DECEMBER 2018

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST RIVER, NEW YORK
BATTERY TO THROGS NECK BRIDGE
CONDITION SURVEY

VH-105

SHEET 5 OF 10

NSRS BENCHMARK
BENCHMARK: 851 8750 TIDAL 7 PID: AB6736
ELEVATION: 11.88' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: B 348 PID: KU1054
ELEVATION: 14.72' (NAVD 1988)
BENCHMARK: V 346 PID: KU1060
ELEVATION: 15.58' (NAVD 1988)
BENCHMARK: E 339 PID: KU1422
ELEVATION: 38.59' (NAVD 1988)
BENCHMARK: C 346 PID: KU1069
ELEVATION: 65.51' (NAVD 1988)
BENCHMARK: 851 8526 TIDAL 4 PID: KU0990
ELEVATION: 11.56' (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 SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
-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 (MLLW) [EPOCH 1983-2001].
-MEAN LOWER LOW WATER IS 2.3-4.1 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.0).
-SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL. SORTED TO A 75' 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 2016 NYS GIS CLEARINGHOUSE
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT, NYDOT VRS NETWORK".
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

4767-PROJECT METADATA

PROJECT METADATA MAY BE VIEWED BY DOUBLE CLICKING ON ICON EDGE.

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 (MLLW) [EPOCH 1983-2001].
- MEAN LOWER LOW WATER IS 2.3-4.1 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 2.2.5).
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL. SORTED TO A 75' 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.
- AERIAL IMAGERY FROM 2016 NYS GIS CLEARINGHOUSE.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "GPS BM 5-01 ER. RTK HARBOR GEORGE. NY DOT VRS NETWORK".
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK	
BENCHMARK: 851 8750 TIDAL 7	PID: AB6736
ELEVATION: 11.88' (NAVD 1988)	

LOCAL CONTROL DATA	
BENCHMARK: B 348	PID: KU1054
ELEVATION: 14.72' (NAVD 1988)	
BENCHMARK: V 346	PID: KU1060
ELEVATION: 15.58' (NAVD 1988)	
BENCHMARK: E 339	PID: KU1422
ELEVATION: 38.59' (NAVD 1988)	
BENCHMARK: C 346	PID: KU1069
ELEVATION: 65.51' (NAVD 1988)	
BENCHMARK: 851 8526 TIDAL 4	PID: KU0990
ELEVATION: 11.56' (NAVD 1988)	

4767-PROJECT METADATA

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

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

	EG	PR
	DC	MP

DATES OF SURVEY:
22-26, 29-31 OCTOBER 2018
1,3-5,9-13,15,17 NOVEMBER 2018

FILE NO.: 195
REQUEST NO.: 4767/D

SCALE:
ONE INCH = 300 FEET

FIELD BOOKS:

APPROVED: L. GEORGE P. KEARNS
CHIEF, OPERATIONS DIVISION

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. NERAZ
BRANCH CHIEF OF SURVEY

DATE: 18 DECEMBER 2018

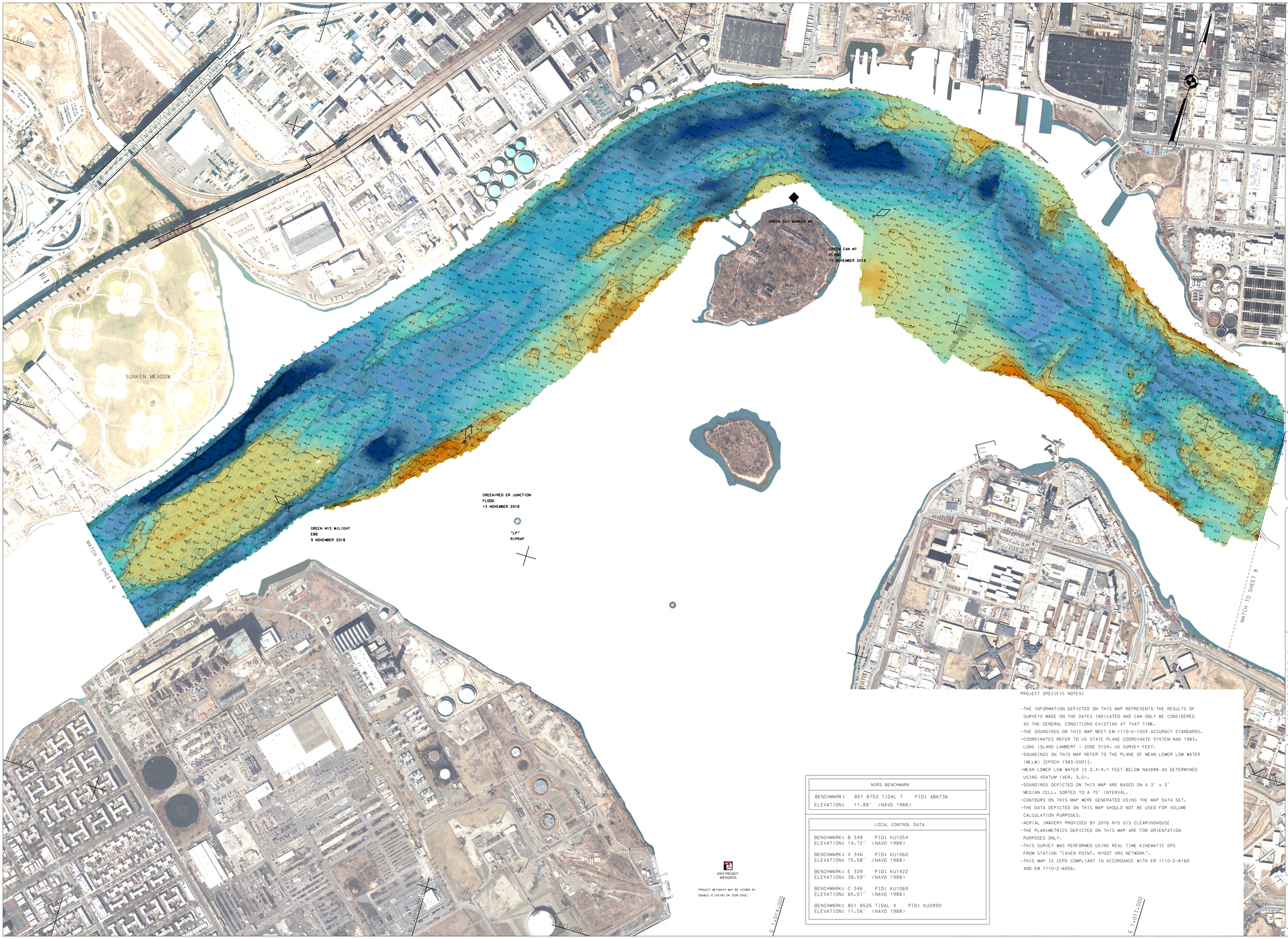
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST RIVER, NEW YORK
BATTERY TO
THROGS NECK BRIDGE
CONDITION SURVEY

VH-106

SHEET 6 OF 10



US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

EQ PR
QC MP

DATES OF SURVEY:
22 OCT-26 NOV

FILE NO.: 195
REQUEST NO.: 4767/0

SCALE:
ONE INCH = 300 FEET

FIELD BOOKS:
N/A

APPROVED: L. GEORGE, P. KEARNS
FIELD REPRESENTATIVES

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
CADD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 18 DECEMBER 2018

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST RIVER, NEW YORK
BATTERY TO
THROGS NECK BRIDGE
CONDITION SURVEY

VH-107

SHEET 7 OF 10

4767-PROJECT METADATA

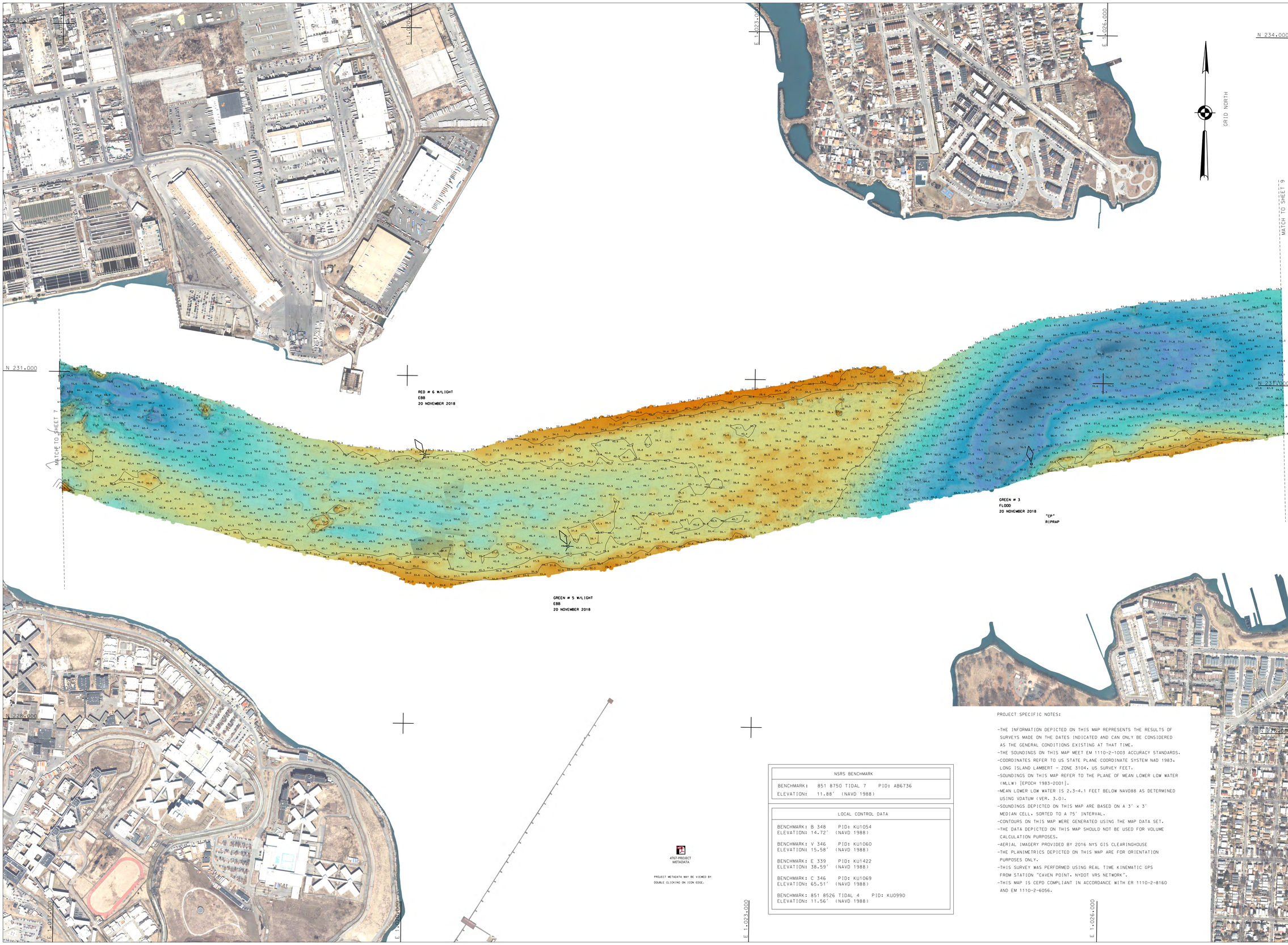
PROJECT METADATA MAY BE VIEWED BY DOUBLE CLICKING ON ICON EDGE.

NSRS BENCHMARK	
BENCHMARK: 851 8750 TIDAL 7	PID: AB6736
ELEVATION: 11.88' (NAVD 1988)	

LOCAL CONTROL DATA	
BENCHMARK: B 348	PID: KU1054
ELEVATION: 14.72' (NAVD 1988)	
BENCHMARK: V 346	PID: KU1060
ELEVATION: 15.58' (NAVD 1988)	
BENCHMARK: E 339	PID: KU1422
ELEVATION: 38.59' (NAVD 1988)	
BENCHMARK: C 346	PID: KU1069
ELEVATION: 65.51' (NAVD 1988)	
BENCHMARK: 851 8526 TIDAL 4	PID: KU0990
ELEVATION: 11.56' (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 SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
-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 (MLLW) [EPOCH 1983-2001].
-MEAN LOWER LOW WATER IS 2.3-4.1 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.0).
-SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL, SORTED TO A 75' 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 2016 NYS GIS CLEARINGHOUSE
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT, NYDOT VRS NETWORK".
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.



NSRS BENCHMARK	
BENCHMARK: 851 8750 TIDAL 7	PID: AB6736
ELEVATION: 11.88' (NAVD 1988)	

LOCAL CONTROL DATA	
BENCHMARK: B 348	PID: KU1054
ELEVATION: 14.72' (NAVD 1988)	
BENCHMARK: V 346	PID: KU1060
ELEVATION: 15.58' (NAVD 1988)	
BENCHMARK: E 339	PID: KU1422
ELEVATION: 38.59' (NAVD 1988)	
BENCHMARK: C 346	PID: KU1069
ELEVATION: 65.51' (NAVD 1988)	
BENCHMARK: 851 8526 TIDAL 4	PID: KU0990
ELEVATION: 11.56' (NAVD 1988)	

4767-PROJECT METADATA

PROJECT METADATA MAY BE VIEWED BY DOUBLE CLICKING ON ICON EDGE.

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 SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
- 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 (MLLW) [EPOCH 1983-2001].
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- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL. SORTED TO A 75' INTERVAL.
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- AERIAL IMAGERY PROVIDED BY 2016 NYS GIS CLEARINGHOUSE
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT, NYDOT VRS NETWORK".
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

EQ	PR	
DC	MP	

DATES OF SURVEY: 22 OCT-26 NOV 2018

FILE NO.: 195
REQUEST NO.: 4767.0

SCALE: ONE INCH = 300 FEET

FIELD BOOKS: N/A

APPROVED: L. GEORGE, P. KEARNS — PROJECT MANAGER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: D. CLARKE — LAND CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 18 DECEMBER 2018

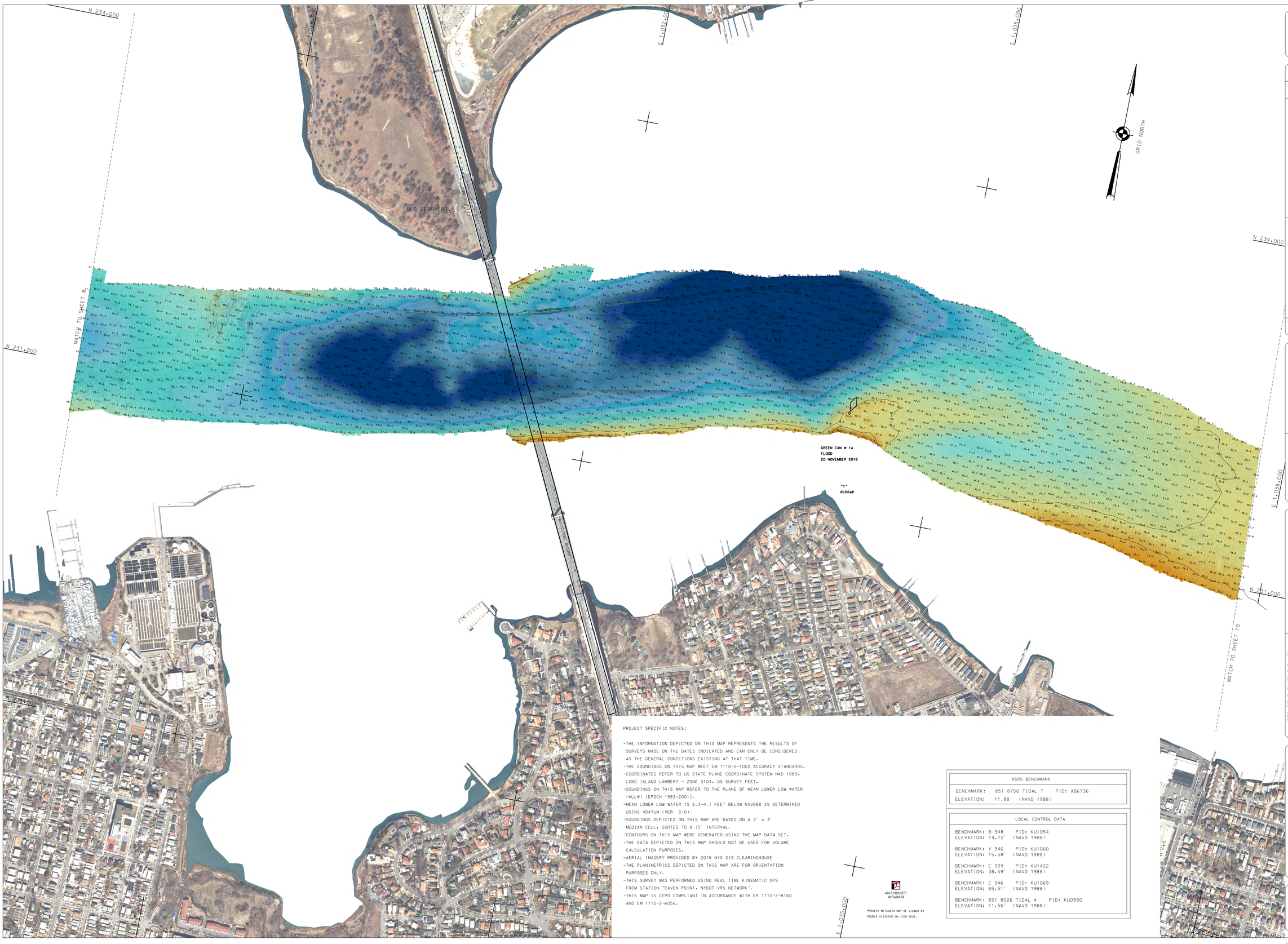
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST RIVER, NEW YORK
BATTERY TO THROGS NECK BRIDGE
CONDITION SURVEY

VH-108

SHEET 8 OF 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 SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
-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 (MLLW) [EPOCH 1983-2001].
-MEAN LOWER LOW WATER IS 2.3-4.1 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.0).
-SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL, SORTED TO A 75' 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 2016 NYS GIS CLEARINGHOUSE
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "CAVEN POINT, NYDOT VRS NETWORK".
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK	
BENCHMARK: 851 8750 TIDAL 7	PID: AB6736
ELEVATION: 11.88' (NAVD 1988)	

LOCAL CONTROL DATA	
BENCHMARK: B 348	PID: KU1054
ELEVATION: 14.72' (NAVD 1988)	
BENCHMARK: V 346	PID: KU1060
ELEVATION: 15.58' (NAVD 1988)	
BENCHMARK: E 339	PID: KU1422
ELEVATION: 38.59' (NAVD 1988)	
BENCHMARK: C 346	PID: KU1069
ELEVATION: 65.51' (NAVD 1988)	
BENCHMARK: 851 8526 TIDAL 4	PID: KU0990
ELEVATION: 11.56' (NAVD 1988)	

4767-PROJECT METADATA

PROJECT METADATA MAY BE VIEWED BY DOUBLE CLICKING ON ICON EDGE.

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

EG PR
DC MP

DATES OF SURVEY:
22 OCT-26 NOV 2018

FILE NO.: 195
REQUEST NO.: 4767/D

SCALE:
ONE INCH = 300 FEET

FIELD BOOKS:
N/A

APPROVED: LL GEORGE, P. E/LS/LA
CHIEF, ENGINEERING TECHNICIAN
APPROVED: M. FORTE
CHIEF, CARTOGRAPHER
APPROVED: D. CLARKE
APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY
DATE: 18 DECEMBER 2018

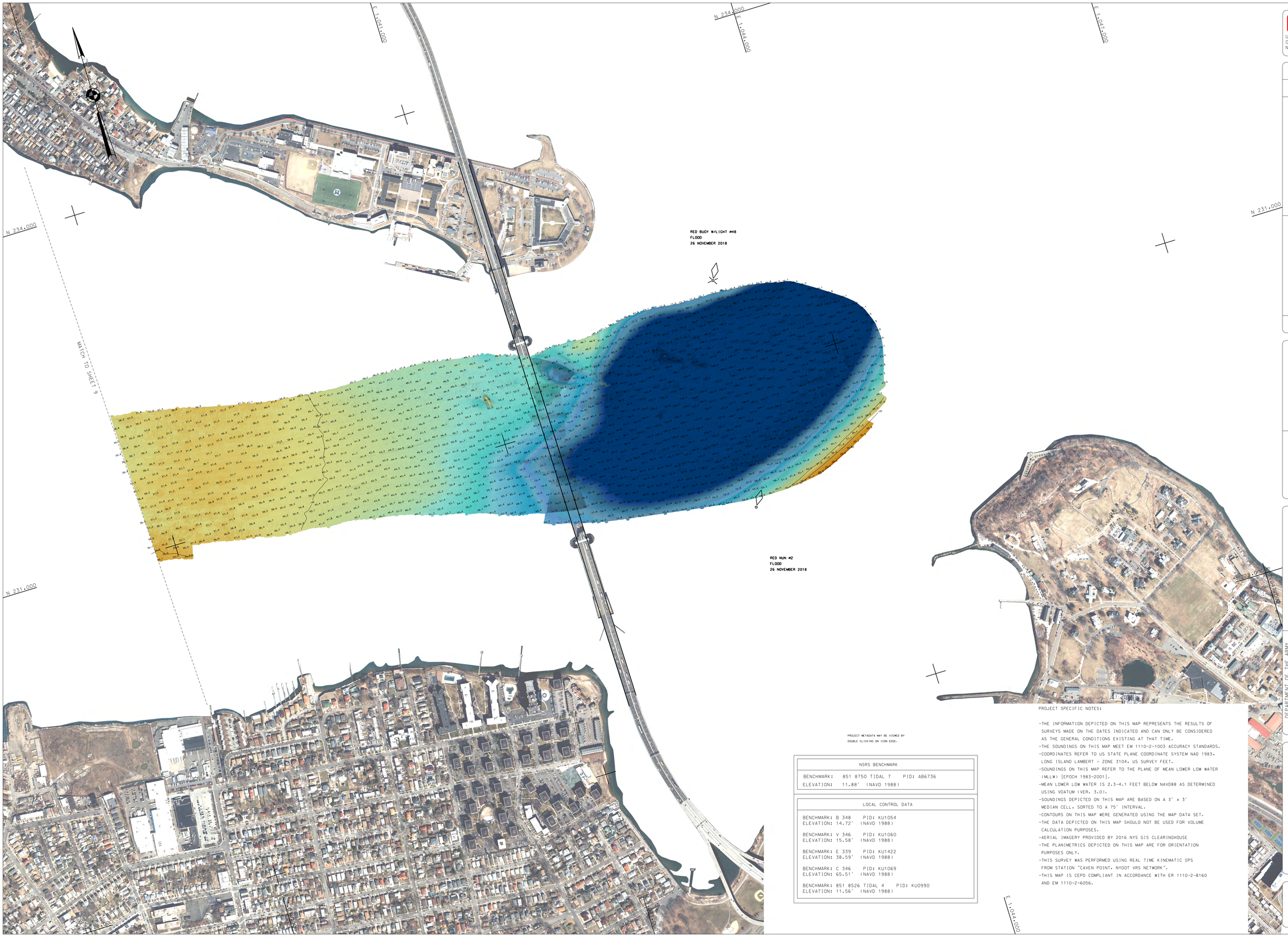
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST RIVER, NEW YORK
BATTERY TO THROGS NECK BRIDGE
CONDITION SURVEY

VH-109

SHEET 9 OF 10



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ELEVATION: 11.88′ (NAVD 1988)	

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

		EG	PR
		DC	MP

DATES OF SURVEY: 22 OCT-26 NOV 2018

FILE NO.: 195
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FIELD BOOKS:
N/A

APPROVED: J. L. GEORGE, P. GEARNS
CHIEF, ENGINEERING DIVISION

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

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BATTERY TO THROGS NECK BRIDGE
CONDITION SURVEY

VH-110

SHEET 10 OF 10