CORPS OF ENGINEERS

U. S. ARMY

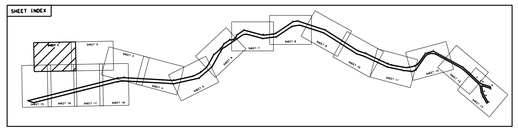
PROJECT SPECIFIC NOTES:

-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 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 4.1-4.2 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.0.1).
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 10' INTERVAL USING THE FULL DATA SET.
-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 NY GIS WAREHOUSE 2018 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "RTK SPOT 3, RTK EVERS & RTK BUSTER".
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153)
ELEVATION:98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114
ELEVATION:16.34 (NAVD 1988)

SHEET INDEX



(GRID NORTH)

N 245,000
N 245,500
N 246,000
N 246,500
N 247,000
E 1,037,000
E 1,037,500
E 1,038,000

MATCH TO SHEET 15

MATCH TO SHEET 16

MATCH TO SHEET 2

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

CM
PM
MAP

DATES OF SURVEY:
8-11,15-18 JUNE 2020

REQ NO./FILE NO.:4960/N2

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI / MAKELVEY
CHIEF, SURVEYS & CONSTRUCTION BRANCH

APPROVED: M. FORTE
TYPE, ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF, SURVEYS & CONSTRUCTION

APPROVED: J. MRAZ
CHIEF, SURVEYS & CONSTRUCTION

DATE: 30 JUNE 2020

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

OPERATIONS DIVISION
SURVEYS SECTION
CENAN-OP-S

EAST CHESTER CREEK
NEW YORK
CONDITION SURVEY

VH-101

SHEET 1 OF 18

REQ NO./FILE NO.:4960/N2

CORPS OF ENGINEERS

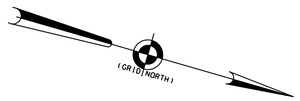
U. S. ARMY

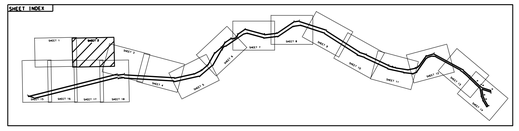
N 247,000

E 1,036,500

N 247,500

N 248,000





NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153)
ELEVATION: 98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114
ELEVATION: 16.34 (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 4.1-4.2 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.0.1).
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 10' INTERVAL USING THE FULL DATA SET.
-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 NY GIS WAREHOUSE 2018 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "RTK SPOT 3, RTK EVERS & RTK BUSTER".
-THIS MAP IS CEPO COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

E 1,037,000

E 1,036,500

N 248,500

MATCH TO SHEET 1

MATCH TO SHEET 3

E 1,037,500

E 1,037,000

MATCH TO SHEET 17

RED #4 W/LIGHT
EBB
18 JUNE 2020

N 247,000

E 1,038,000

N 247,500

N 248,000

N 248,500

E 1,037,500

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

	CM	PPR
	CM	SPD

DATES OF SURVEY:
8-11,15-18 JUNE 2020

REQ NO./FILE NO.:4960/N2

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI / MCKELVEY
CHIEF, SURVEY BRANCH

APPROVED: M. FORTE
CHIEF, PHOTOGRAMMETRIC TECHNICIAN

APPROVED: P. BHABUR
CHIEF, FIELD SURVEY GROUP

APPROVED: J. MRAZ
SURVEY QUALITY ASSURANCE

DATE: 30 JUNE 2020

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST CHESTER CREEK

NEW YORK

CONDITION SURVEY

VH-102

SHEET 2 OF 18

REQ NO./FILE NO.:4960/N2

CORPS OF ENGINEERS

U. S. ARMY

N 248.500

N 249.000

N 249.500

N 250.000

GRID NORTH

E 1.037.000

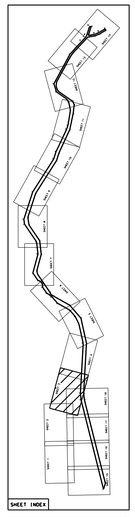
E 1.037.500

MATCH TO SHEET 2

MATCH TO SHEET 4

MATCH TO SHEET 18

18



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 5104. 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 4.1-4.2 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.0.1).
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 10' INTERVAL USING THE FULL DATA SET.
-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 NY GIS WAREHOUSE 2018 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "RTK SPOT 2, RTK EVERS & RTK BUSTER".
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153)
ELEVATION: 98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114
ELEVATION: 16.34 (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	CM	PR
	CM	MP

DATES OF SURVEY: 8-11,15-18 JUNE 2020

REQ NO./FILE NO.: 4960/N2

SCALE: ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI / MCKELVEY (FIELD SURVEILLANCE)

APPROVED: M. FORTE (CHIEF, TECHNICAL SECTION)

APPROVED: P. BHADURI (CHIEF SURVEILLANCE)

APPROVED: J. MRAZ (CHIEF, SURVEY BRANCH)

DATE: 30 JUNE 2020

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST CHESTER CREEK
NEW YORK
CONDITION SURVEY

VH-103

SHEET 3 OF 18

REQ NO./FILE NO.: 4960/N2

CORPS OF ENGINEERS

U. S. ARMY

GRID NORTH

N 250.500

N 251.000

N 251.500

E 1.037.000

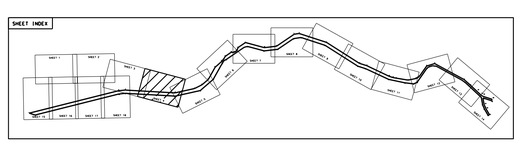
E 1.037.500

ROCKS

MATCH TO SHEET 3

MATCH TO SHEET 5

SHEET INDEX



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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-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "RTK SPOT 3, RTK EVERS & RTK BUSTER".
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153)
ELEVATION:98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114
ELEVATION:16.34 (NAVD 1988)

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

CM PR
CM MP

DATES OF SURVEY: 6-11,15-18 JUNE 2020

REQ NO./FILE NO.:14960/N2

SCALE: ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI / ANGELWICZ CHIEF, SURVEYS

APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BALDUR CHIEF, SURVEYS

APPROVED: J. MRAZ DEPUTY CHIEF OF SURVEYS

DATE:30 JUNE 2020

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

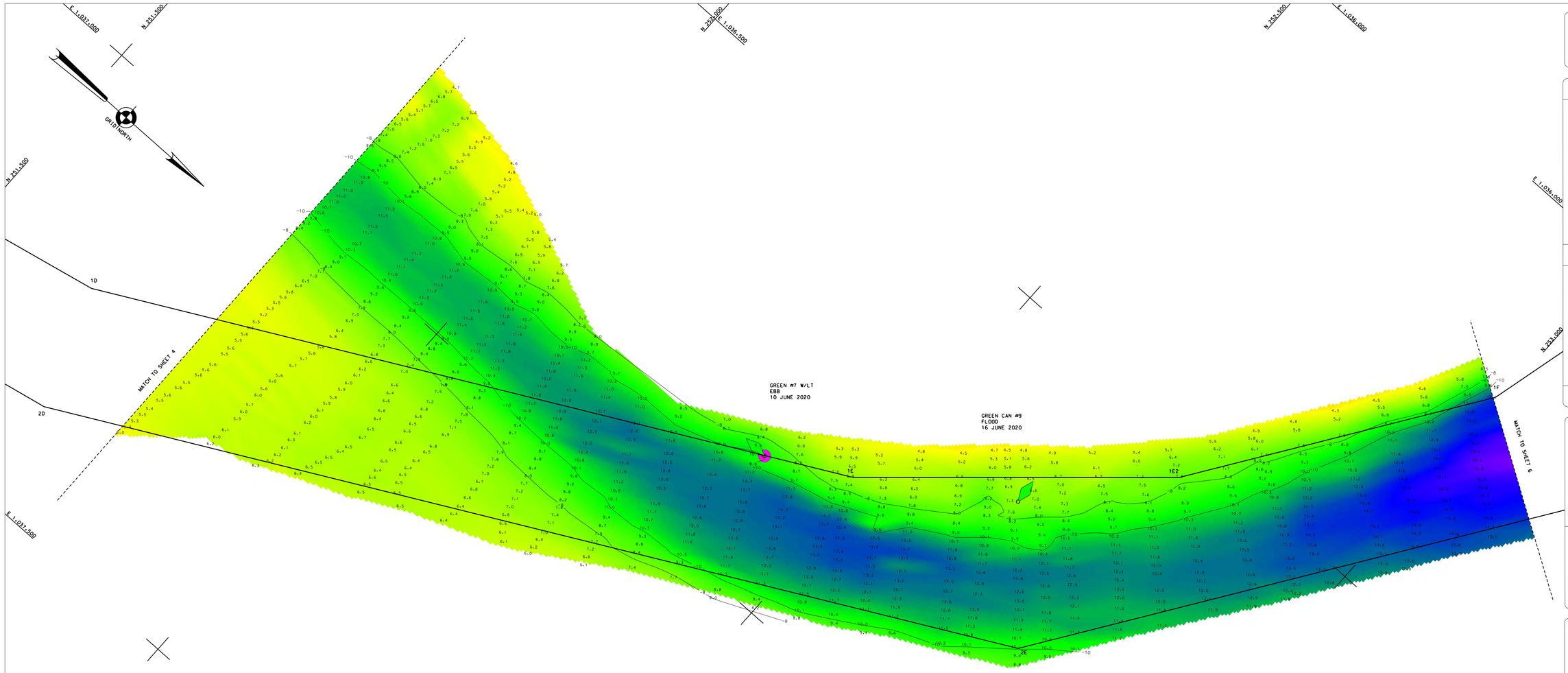
EAST CHESTER CREEK
NEW YORK
CONDITION SURVEY

VH-104

SHEET 4 OF 18

CORPS OF ENGINEERS

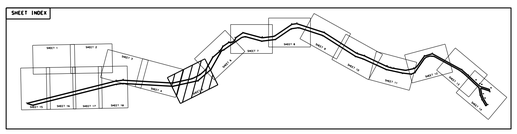
U. S. ARMY



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 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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-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-AERIAL IMAGERY PROVIDED BY NY GIS WAREHOUSE 2018 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "RTK SPOT 3, RTK EVERS & RTK BUSTER".
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

SHEET INDEX



NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153)
ELEVATION: 98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114
ELEVATION: 16.34 (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	PIC	MIP
	CM	CW

DATES OF SURVEY:
6-11,15-18 JUNE 2020

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

REQ NO./FILE NO.:4960/N2

APPROVED: BERTOLOTTI / MAKELVEY
CHIEF, SURVEY BRANCH

APPROVED: M. FORTE
SURVEY ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF CARTOGRAPHY

APPROVED: J. MRAZ
CHIEF, CHIEF OF SURVEYS

DATE: 30 JUNE 2020

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

OPERATIONS DIVISION
SURVEYS SECTION
CENAN-OP-S

EAST CHESTER CREEK
NEW YORK
CONDITION SURVEY

VH-105

SHEET 5 OF 18

REQ NO./FILE NO.:4960/N2

CORPS OF ENGINEERS

U. S. ARMY

GRID NORTH

N 252,500

E 1,035,500

E 1,034,500

N 253,000

N 253,500

E 1,036,000

E 1,035,000

N 254,000

GREEN CAN #11
FLOOD
16 JUNE 2020

ROCKS

PILINGS

MATCH TO SHEET 5

MATCH TO SHEET 7

SHEET INDEX

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 4.1-4.2 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.0.1).
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 10' INTERVAL USING THE FULL DATA SET.
-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 NY GIS WAREHOUSE 2018 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "RTK SPOT 3, RTK EVERS & RTK BUSTER".
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153)
ELEVATION: 98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114
ELEVATION: 16.34 (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

CM PR
CM MP

DATES OF SURVEY:
8-11,15-18 JUNE 2020

REQ NO./FILE NO.:4960/N2

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI / MCKELVEY
CHIEF, ENGINEERING DIVISION

APPROVED: M. FORTE
CHIEF, ENGINEERING TECHNICIAN

APPROVED: P. BRADNER
CHIEF, GEOSPATIAL

APPROVED: J. MRAZ
CHIEF, FIELD OF SURVEYS

DATE: 30 JUNE 2020

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

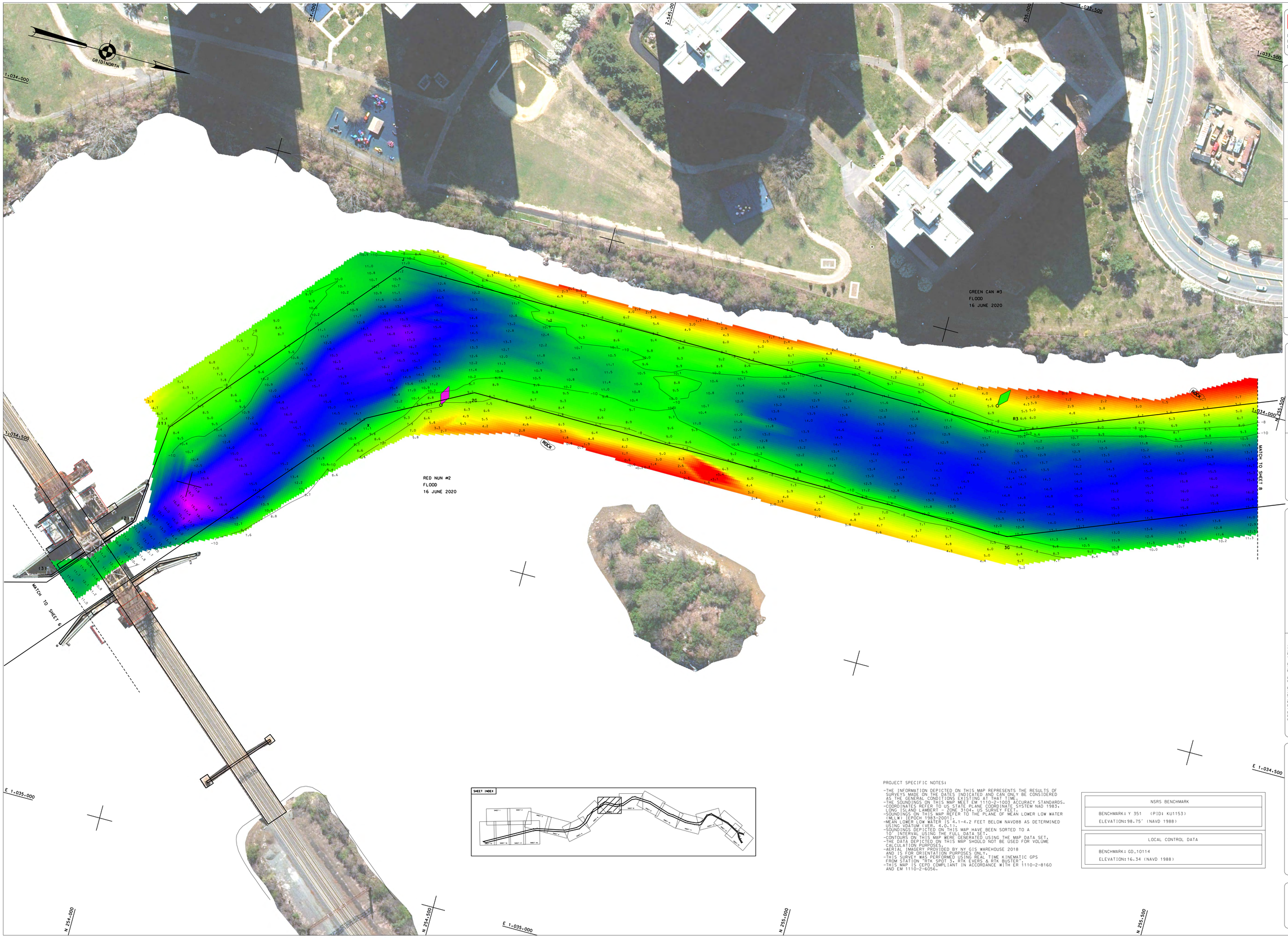
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST CHESTER CREEK
NEW YORK
CONDITION SURVEY

VH-106

SHEET 6 OF 18

REQ NO./FILE NO.:4960/N2



SHEET INDEX

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 4.1-4.2 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.0.1).
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 1D INTERVAL USING THE FULL DATA SET.
-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 NY GIS WAREHOUSE 2018 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION 'RTK SPOT 3, RTK EVERS & RTK BUSTER'.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153)
ELEVATION:98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114
ELEVATION:16.34 (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

	DR	CM	PR
		CM	MP

DATES OF SURVEY:
8-11,15-18 JUNE 2020

REQ NO./FILE NO.:4960/N2

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI / MCELVEY
CHIEF, SURVEYS

APPROVED: Ms. FORTE
CHIEF, ENGINEERING DIVISION

APPROVED: Pc. BHADURI
CHIEF, COASTAL HYDRAULICS & HYDROLOGY

APPROVED: Jr. MRAZ
CHIEF, BRANCH OF SURVEYS

DATE: 30 JUNE 2020

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

OPERATIONS DIVISION
SURVEYS SECTION
CENAN-OP-S

EAST CHESTER CREEK
NEW YORK
CONDITION SURVEY

VH-107

SHEET 7 OF 18

CORPS OF ENGINEERS

MATCH TO SHEET 7

N 255,500

E 1,031,000

E 1,031,500

GRID NORTH

N 257,000

E 1,031,000

DRAW BRIDGE

SHEET INDEX

PROJECT SPECIFIC NOTES:

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS
-THIS SURVEY WAS PERFORMED ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED
-THE SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
-LONG ISLAND LAMBERT - ZONE 3104, US SURVEY FEET, SYSTEM NAD 1983.
-MLLW IN FEET (EPOCH 1983-2001) REFER TO THE PLANE OF MEAN LOWER LOW WATER
-USING VDATUM VER. 4.0.1 +4.2 FEET BELOW NAVD88 AS DETERMINED
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME
-AERIAL IMAGERY PROVIDED BY NYS GIS WAREHOUSE 2018
-TO CONVERT RISING THE FIELD DATA HAS BEEN SORTED TO A
-THIS SURVEY IS CERTIFIED TO MEET EM 1110-2-1003 ACCURACY STANDARDS
AND EM 1110-2-6056.

NSRS BENCHMARK

BENCHMARK Y 351 (PID: KU1153)
ELEVATION:98.75' (NAVD 1988)

LOCAL CONTROL DATA

BENCHMARK GD-10114
ELEVATION:16.34 (NAVD 1988)

2J
2K
1K
1J
2I
2H
2G
2F
2E
2D
2C
2B
2A
1I
1H
1G
1F
1E
1D
1C
1B
1A

ROCK

SURVEYED 04 JUNE 2020

MATCH TO SHEET 9

N 257,000

E 1,031,500

EAST CHESTER CREEK

NEW YORK

CONDITION SURVEY

VH-108

SHEET 8 OF 18

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

APPROVED: BERTOLOTTI / McKELVEY
FIELD CARTOGRAPHER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS

DATE: 30 JUNE 2020

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

DATES OF SURVEY:
8-11,15-18 JUNE 2020

REQ NO./FILE NO.:4960/N2

CM	PR		
CM	MP		

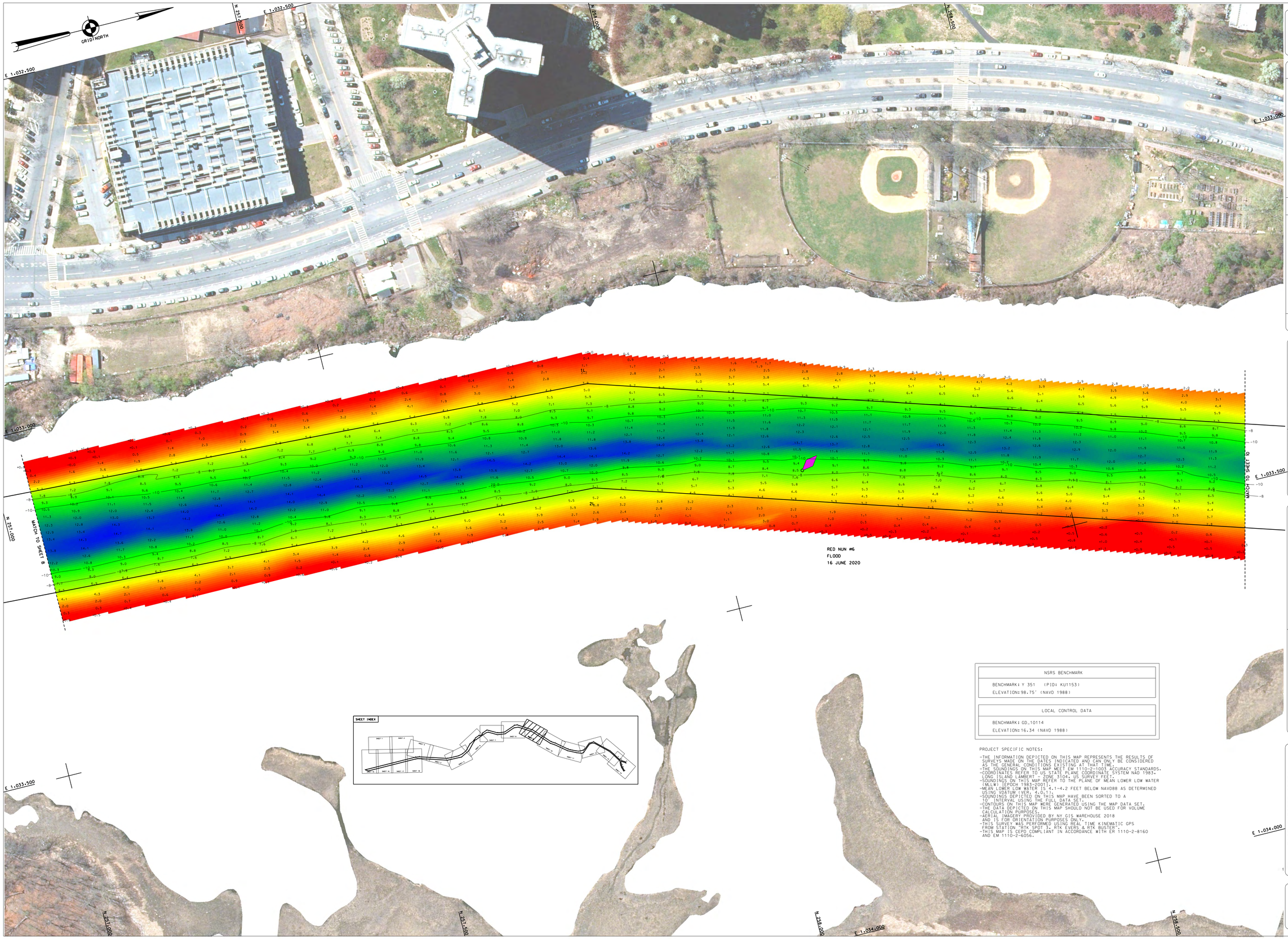
US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

REQ NO./FILE NO:4960/N2

U. S. ARMY

CORPS OF ENGINEERS

U. S. ARMY



SHEET INDEX

NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153)
ELEVATION: 98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114
ELEVATION: 16.34 (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 4.1-4.2 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.0.1).
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 10' INTERVAL USING THE FULL DATA SET.
-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 NY GIS WAREHOUSE 2018 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "RTK SPOT 3, RTK EVERS & RTK BUSTER".
-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

CM PR
CM MP

DATES OF SURVEY:
8-11,15-18 JUNE 2020

REQ NO./FILE NO.:14960/N2

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI / MCKELVEY
CIVIL ENGINEERING TECHNICIAN

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P.S. BHADURI
CHIEF, SURVEY SECTION

APPROVED: J.T. MERAZ
DEPUTY CHIEF OF SURVEYS

DATE: 30 JUNE 2020

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

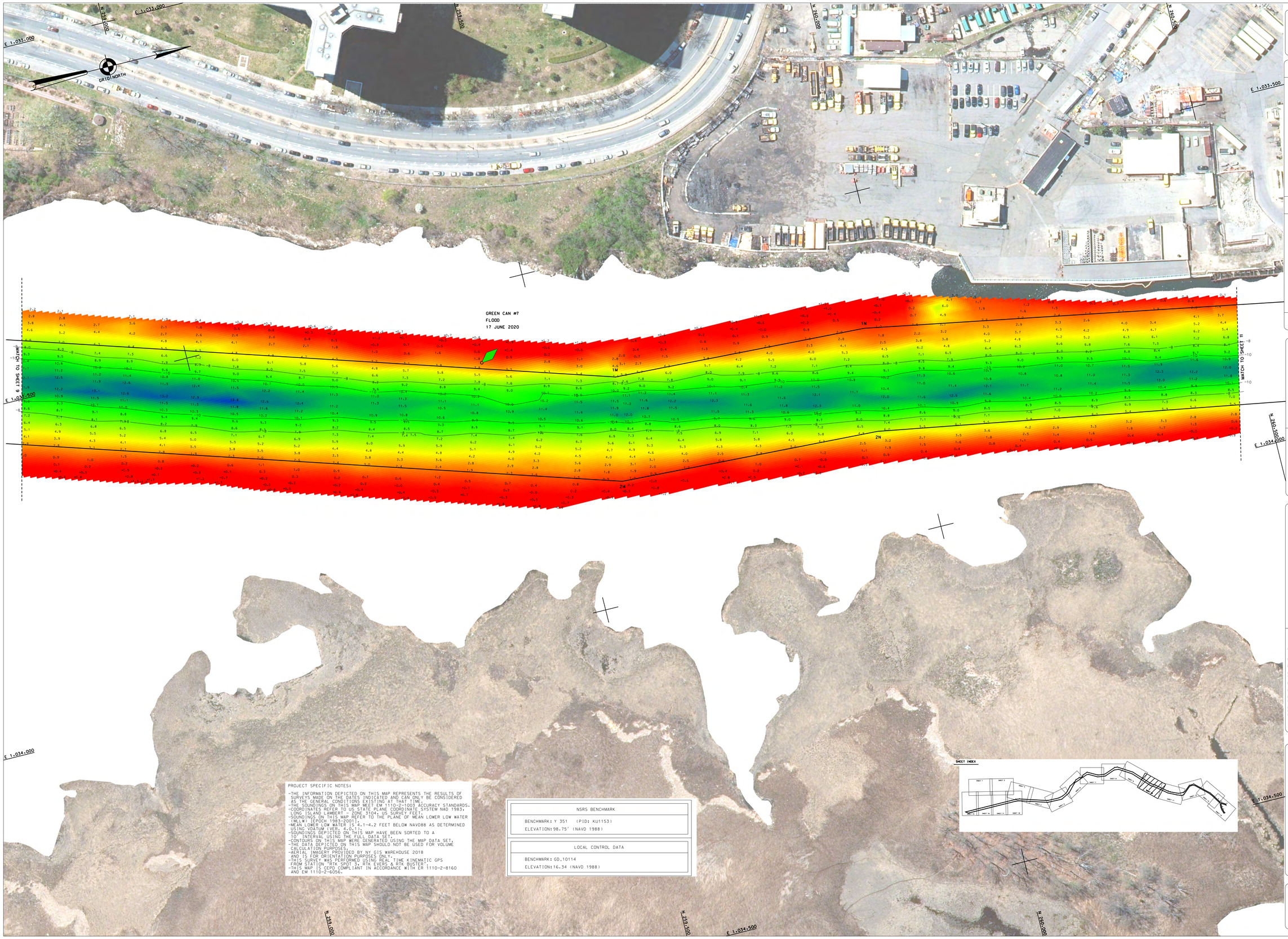
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST CHESTER CREEK
NEW YORK
CONDITION SURVEY

VH-109

SHEET 9 OF 18

REQ NO./FILE NO.:14960/N2



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 4.1-4.2 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.0.1).
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-AERIAL IMAGERY PROVIDED BY NY GIS WAREHOUSE 2018 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "RTK SPOT 3, RTK EVERS & RTK BUSTER".
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153)
ELEVATION:98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114
ELEVATION:16.34 (NAVD 1988)

SHEET INDEX

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

CM FPR
CM MP

DATES OF SURVEY:
8-11,15-18 JUNE 2020

REQ NO./FILE NO:14960/N2

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI / SMUKLER
FIELD EXPERIENCE

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADURI
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
BRANCH CHIEF OF SURVEYS

DATE:10 JUNE 2020

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST CHESTER CREEK
NEW YORK
CONDITION SURVEY

VH-110

SHEET 10 OF 18

N 260.500

N 261.000

N 261.500

N 262.000

E 1,033.500

E 1,034.000

E 1,034.500

GRID NORTH

MATCH TO SHEET 10

MATCH TO SHEET 12

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 4.1-4.2 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.0.1).
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-AERIAL IMAGERY PROVIDED BY NY GIS WAREHOUSE 2018 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION 'NEW YORK SPOT 5, RTK EVERS & RTK BUSTER'.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153)
ELEVATION: 98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114
ELEVATION: 16.34 (NAVD 1988)

SHEET INDEX

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

CM PR
CM MP

DATES OF SURVEY:
8-11,15-18 JUNE 2020.

REQ NO./FILE NO.:14960/N2

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI / ANGELVEY
CHIEF, SURVEY BRANCH

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF, OPERATIONS DIVISION

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS

DATE: 30 JUNE 2020

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST CHESTER CREEK

NEW YORK

CONDITION SURVEY

VH-111

SHEET 11 OF 18

U. S. ARMY

CORPS OF ENGINEERS

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

			CM
			CM
			PR
			MP

DATES OF SURVEY:
8-11.15-18 JUNE 2020

REQ NO./FILE NO.:14960/N2

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

DEPTH CHIEF OF SURVEYS: BERTOLOTTI / MCKELVEY
FIELD CREW/OWNER
CHIEF ENGINEERING TECHNICIAN: P. BHADURI
LEAD CREW/OWNER
APPROVED: J. MRAZ
DATE: 30 JUNE 2020

APPROVED: M. FORTE

APPROVED:

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST CHESTER CREEK

NEW YORK

CONDITION SURVEY

VH-112

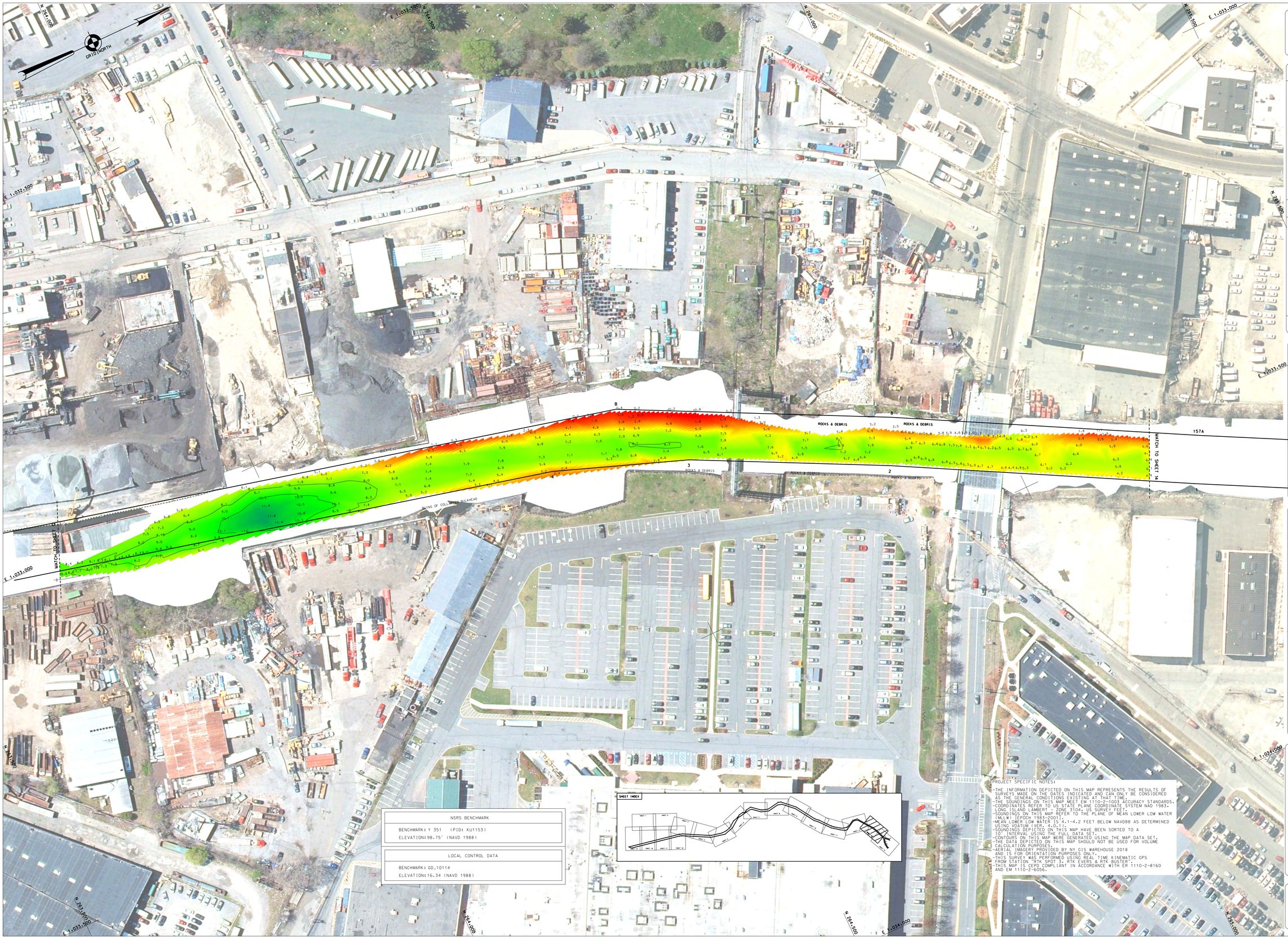
SHEET 12 OF 18

REQ NO./FILE NO:14960/N2


N 263,000
E 1,033,500
N 262,500
E 1,034,000
N 262,000
E 1,034,500
N 261,500
E 1,035,000
N 261,000
E 1,035,500
N 260,500
E 1,036,000
N 260,000
E 1,036,500
MATCH TO SHEET 10
MATCH TO SHEET 11
OVERHANGING TREES
BARGE
GRID NORTH
NOAA CORPS OF ENGINEERS
NOAA CORPS OF ENGINEERS
NOAA CORPS OF ENGINEERS

CORPS OF ENGINEERS

U. S. ARMY



US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

CM	PR
CM	MP

DATES OF SURVEY:
8-11,15-18 JUNE 2020

REQ NO./FILE NO.:4960/N2

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: _____ BERTOLOTTI / MCKELVEY
CHIEF, SURVEY SECTION

APPROVED: _____ M. FORTE
CHIEF, ENGINEERING DIVISION

APPROVED: _____ P. BHADUR
CHIEF, OPERATIONS DIVISION

APPROVED: _____ J. MRAZ
BRANCH CHIEF OF SURVEYS

DATE: 30 JUNE 2020

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153)
ELEVATION: 98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114
ELEVATION: 16.34 (NAVD 1988)

SHEET INDEX

PROJECT SPECIFIC NOTES:

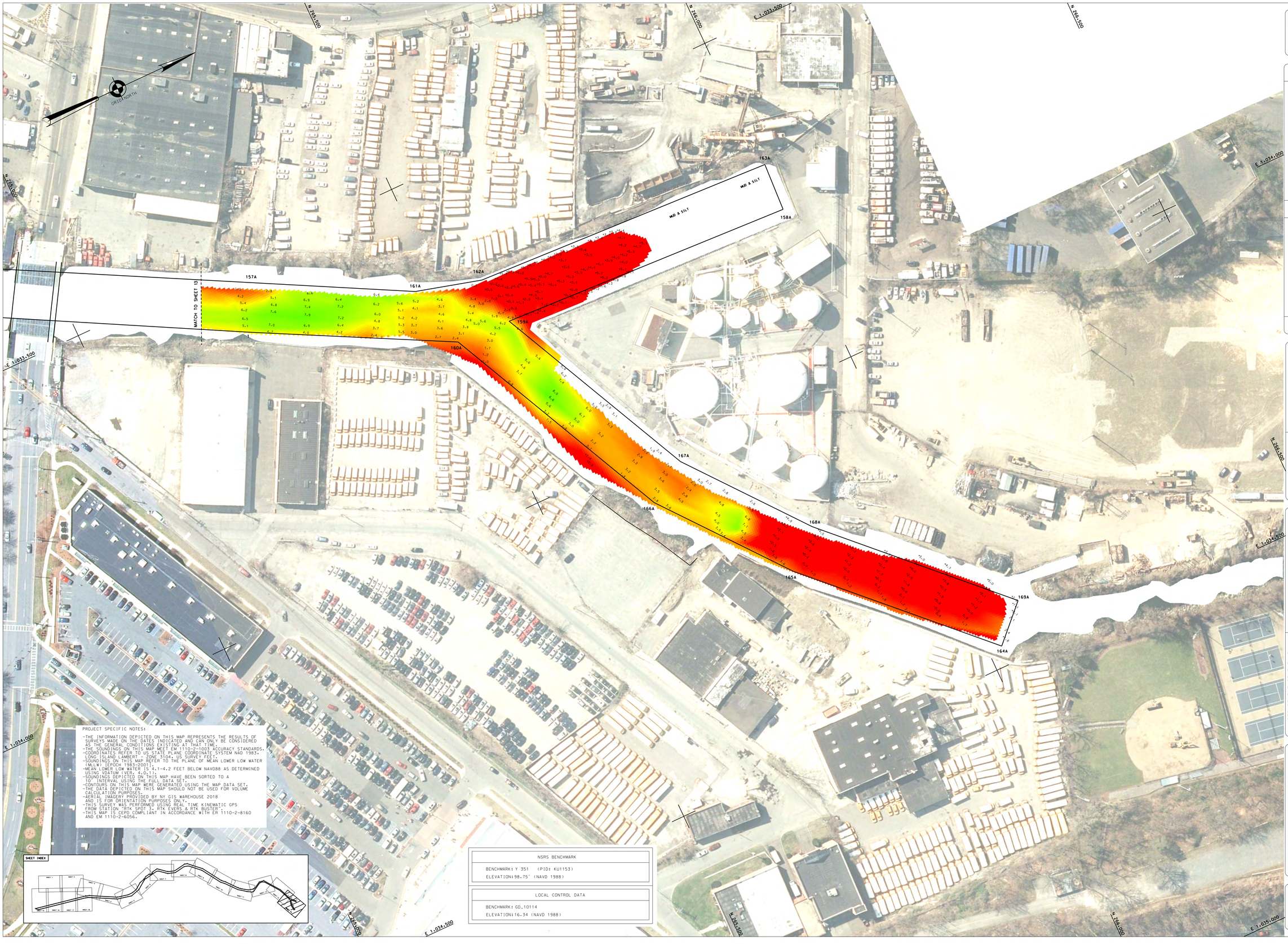
-THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
-THE SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
-COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 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 4.1-4.2 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.0.1).
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 1'-0" INTERVAL USING THE FULL DATA SET.
-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 NY GIS WAREHOUSE 2018
-AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION 'RTK SPOT 3' VIA EVERS & RTK BUSTER.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

EAST CHESTER CREEK
NEW YORK
CONDITION SURVEY

VH-113

SHEET 13 OF 18

REQ NO./FILE NO.:4960/N2



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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-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-AERIAL IMAGERY PROVIDED BY NY GIS WAREHOUSE 2018 AND IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS FROM STATION MARK SPOT 15, RTK EVERS & RTK BUSTER .
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

SHEET INDEX

NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153)
ELEVATION: 98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114
ELEVATION: 16.34 (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

CM PR
CHK MAP

DATES OF SURVEY:
8-11,15-18 JUNE 2020

REQ NO./FILE NO.:14960/N2

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI / MAKELVEY
CHIEF, SURVEYS BRANCH

APPROVED: M. FORTE
SVYS. ENGINEERING TECHNICIAN

APPROVED: P.L. BRABOUR
CHIEF, HYDROGRAPHIC SURVEY SECTION

APPROVED: J. MRAZ
CHIEF, SURVEY OF HARBORS

DATE: 30 JUNE 2020

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

OPERATIONS DIVISION
SURVEYS SECTION
CENAN-OP-S

EAST CHESTER CREEK

NEW YORK

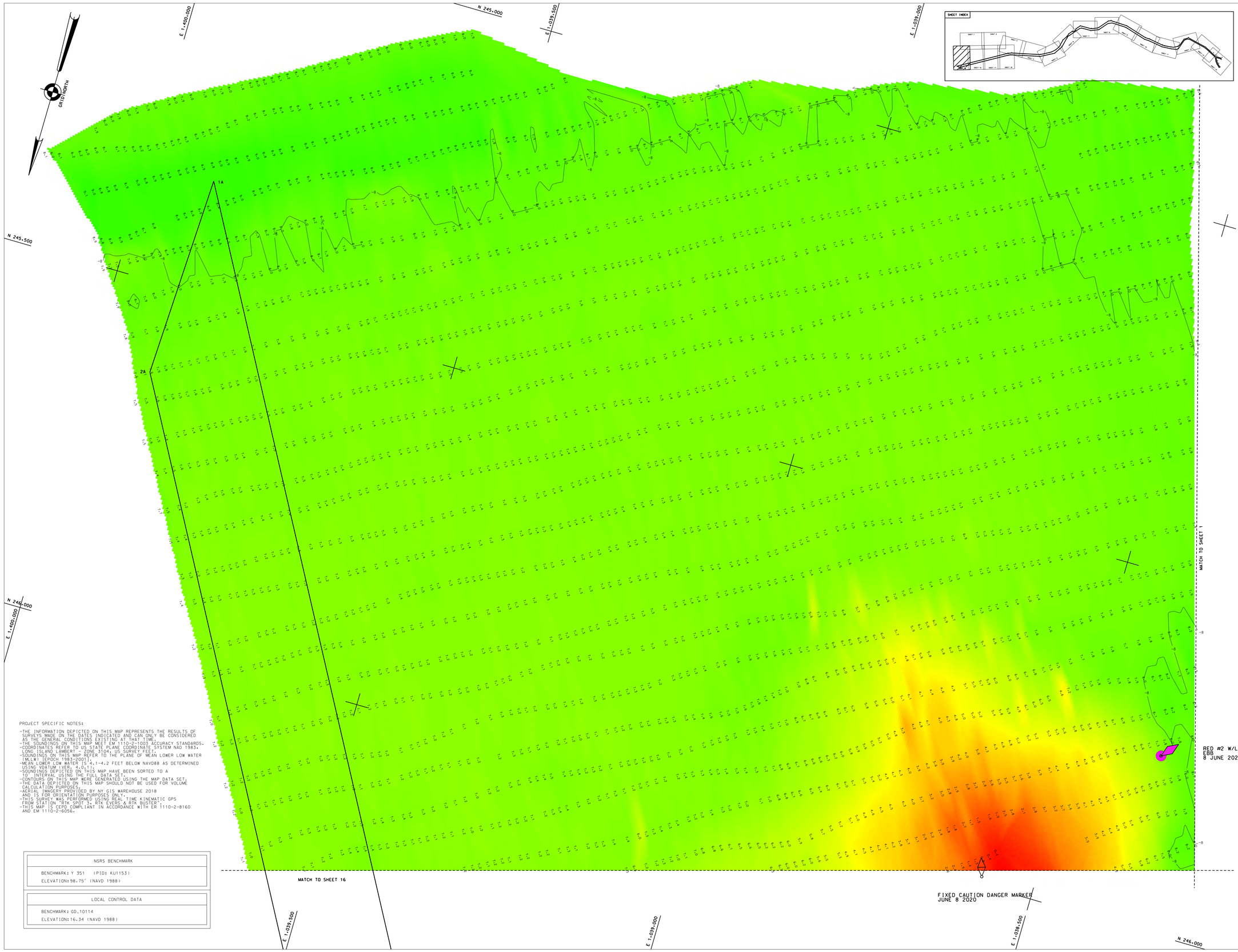
CONDITION SURVEY

VH-114

SHEET 14 OF 18

CORPS OF ENGINEERS

U. S. ARMY



SHEET INDEX

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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-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "RTK SPOT 3, RTK EVERS & RTK BUSTER".
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153)
ELEVATION: 98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114
ELEVATION: 16.34 (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

CM	CM	
PPR	MJP	

DATES OF SURVEY:
6-11,15-18 JUNE 2020

REQ NO./FILE NO.:4960/N2

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI / MAKELVEY
CHIEF, OPERATIONS DIVISION

APPROVED: M. FORTE
CHIEF, ENGINEERING TECHNICIAN

APPROVED: P.L. BRABEUR
CHIEF, SURVEYS SECTION

APPROVED: J. MRAZ
SENIOR CHIEF OF SURVEYS

DATE: 30 JUNE 2020

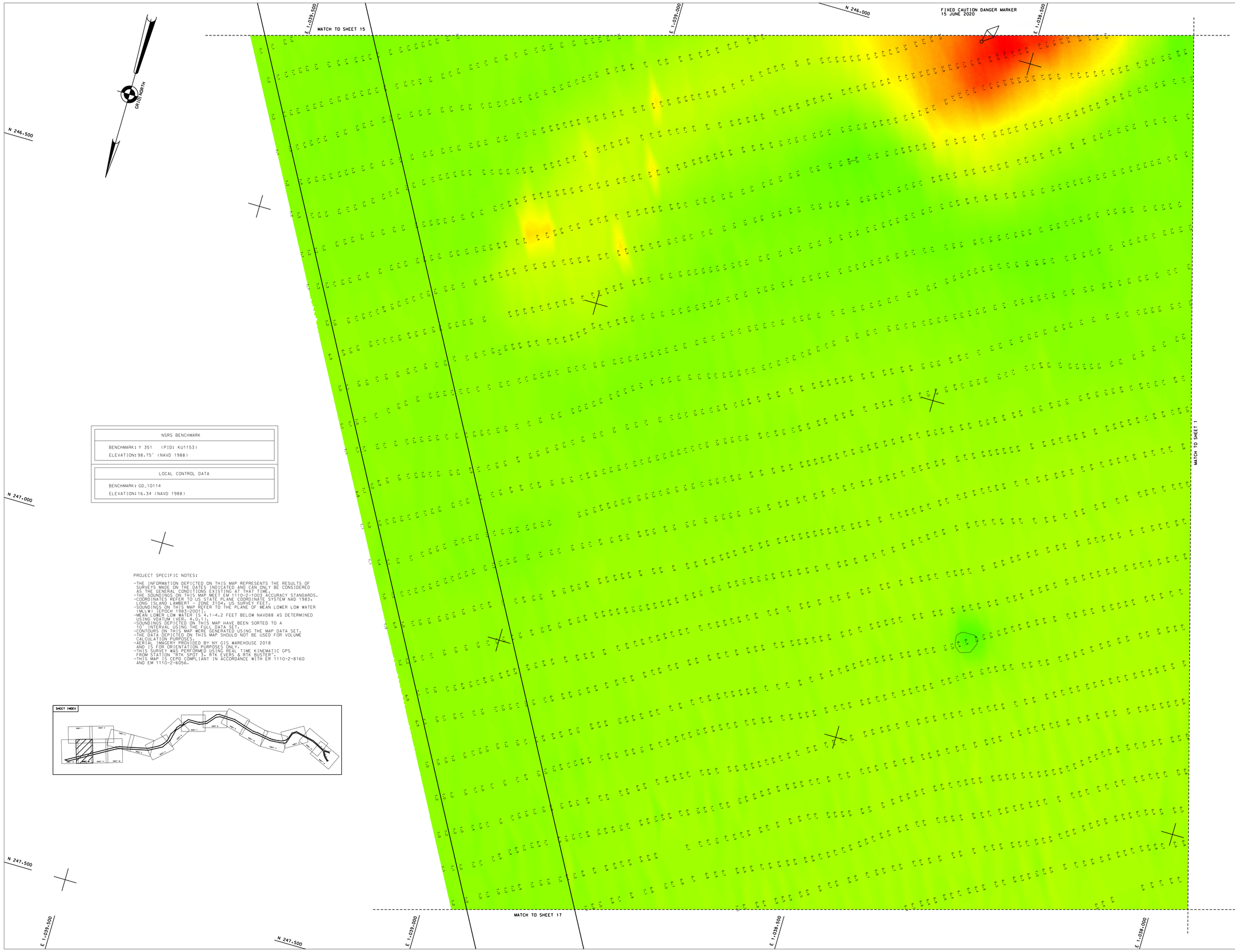
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEYS SECTION
CENAN-OP-S

EAST CHESTER CREEK
NEW YORK
CONDITION SURVEY

VH-115

SHEET 15 OF 18



NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153) ELEVATION:98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114 ELEVATION:16.34 (NAVD 1988)

PROJECT SPECIFIC NOTES:

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-SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) (EPOCH 1983-2001).
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-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

SHEET INDEX

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

CM PPR
CM MAP

DATES OF SURVEY:
6-11,15-18 JUNE 2020

REQ NO./FILE NO.:4960/N2

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI / MAKELVEY
CHIEF, SURVEY BRANCH

APPROVED: M. FORTE
TYPE ENGINEERING TECHNICIAN

APPROVED: P. BRABOUR
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEYS

DATE: 30 JUNE 2020

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST CHESTER CREEK
NEW YORK
CONDITION SURVEY

VH-116

SHEET 16 OF 18

CORPS OF ENGINEERS

U. S. ARMY

N 247.500

E 1,038,500

E 1,039,000

E 1,038,000

MATCH TO SHEET 16

GRIDNORTH

E 1,039,500

N 248,000

MATCH TO SHEET 2

N 248,500

E 1,037,500

MATCH TO SHEET 18

E 1,039,000

E 1,038,500

E 1,038,000

N 248,500

E 1,037,500

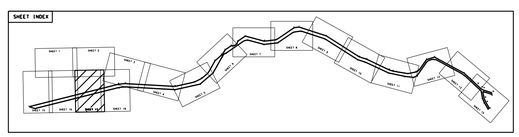
NSRS BENCHMARK
BENCHMARK: Y 351 (PID: KU1153) ELEVATION: 98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114 ELEVATION: 16.34 (NAVD 1988)

PROJECT SPECIFIC NOTES:

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-AERIAL IMAGERY PROVIDED BY NY GIS WAREHOUSE 2018
-ARIS IS FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "RTK SPOT 3" RTK EVERS & RTK BUSTER".
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

SHEET INDEX



US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

CM
CM
PPR
MAP

DATES OF SURVEY:
6-11,15-18 JUNE 2020

REQUEST NO.:4960/N2

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI / MACELUFET
CHIEF, ENGINEERING DIVISION

APPROVED: M. FORTE
CHIEF, ENGINEERING SECTION

APPROVED: P. BHADURI
PROJECT MANAGER

APPROVED: J. MRAZ
CHIEF, OFFICE OF SURVEYS

DATE: 30 JUNE 2020

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST CHESTER CREEK

NEW YORK

CONDITION SURVEY

VH-117

SHEET 17 OF 18

REQ NO./FILE NO.:4960/N2

U. S. ARMY

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

			CM
			PR
			NP

REG NO./FILE NO.:14960/N2

DATES OF SURVEY:
8-11,18-18 JUNE 2020

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: BERTOLOTTI / MCKELVEY
FIELD CHIEF/SURVEYOR

APPROVED: M. FORTE
CHIEF, ENGINEERING TECHNICIAN

APPROVED: P. BHADURI
CHIEF, CONSTRUCTION

APPROVED: J. MERAZ
DEPUTY CHIEF OF SURVEYS

DATE:30 JUNE 2020

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

EAST CHESTER CREEK

NEW YORK

CONDITION SURVEY

VH-118

SHEET 18 OF 18

REG NO./FILE NO:14960/N2

N 248,500
E 1,037,500
E 1,038,000
N 249,000
MATCH TO SHEET 17
MATCH TO SHEET 3
1C
1B
2B
2C
E 1,038,500
N 248,500
E 1,039,000
N 249,000
E 1,039,500

NOAA BENCHMARK
BENCHMARK: Y 351 (PID: KU1153)
ELEVATION: 98.75' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: GD_10114
ELEVATION: 16.34 (NAVD 1988)

PROJECT SPECIFIC NOTES:
-THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF
A HYDROGRAPHIC SURVEY CONDUCTED BY THE NEW YORK DISTRICT, CORPS
OF ENGINEERS, USING EXISTING NAVIGATION ACCURACY STANDARDS.
-THE GENERAL CONDITIONS EXISTING AT THE TIME OF SURVEY.
-COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983.
-SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER
MEAN LOWER LOW WATER IS 4.1-4.2 FEET BELOW NAVD88 AS DETERMINED
BY NOAA TIDE GAUGE 8516945.
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A
CONSTANT DRAFT AND MAY NOT REFLECT ACTUAL DEPTHS.
-CONTOURS ON THIS MAP WERE DERIVED USING PHOTOGRAMMETRIC
METHODS AND ARE REPRESENTED AT 1 FOOT INTERVALS.
-AERIAL IMAGERY PROVIDED BY NY GIS WAREHOUSE 2018
-THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS
AND STANDARD HYDROGRAPHIC SOUNDING EQUIPMENT.
-FROM MLW TO +10 FEET CHART DATUM IN ACCORDANCE WITH
AND EM 1110-2-6056.

SHEET INDEX

GRID NORTH

CORPS OF ENGINEERS