REQ NO./FILE NO.: 5061

U. S. ARMY

CORPS OF ENGINEERS

N 242.000 | N 238.000 | N 234.000 | N 230.000

E 1,014,000 | E 1,018,000 | E 1,022,000

BRONX RIVER
NEW YORK
CONDITION SURVEY

VH-101

SHEET 1 OF 9

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

OPERATIONS DIVISION
SURVEYS SECTION
CHIEF: JOHN SCHUMACHER

APPROVED: L.ROGERS — TITLE: SURVEYOR
APPROVED: B.SMITH — TITLE: PROJECT MANAGER
APPROVED: E.BHADUR — CHIEF, OPERATIONS DIVISION
APPROVED: J. MIRAZ — CHIEF, SURVEY BRANCH
DATE: 08/05/2021

SCALE:
ONE INCH = 400 FEET

FIELD BOOKS:
S.S.

DATES OF SURVEY:
06/22/21 - 07/14/21

REQ NOs./FILE NOs.: 5061

ROGERS SURVEYING, PLLC
435 Bement Avenue
Staten Island, NY 10310
(718) 227-1622
www.rogerssurveying.net

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

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 SOFT 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 USING VOATUM (VER. 4.1).
-MEAN LOWER LOW WATER IS 3.91 FEET BELOW NAVD88 AS DETERMINED IMLLW) [EPOCH 1983-2001].
-SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3x3 MEDIAN DATA SET SORTED TO A 10' INTERVAL.
-CONTOURS ON THIS MAP WERE GENERATED USING A 3x3 MEDIAN DATA SET.
CALCULATION PURPOSES.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME
-AERIAL IMAGERY PROVIDED BY NEW YORK GIS CLEARINGHOUSE. DATED 2020.
PURPOSES ONLY.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KENET" NETWORK.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

LOCAL CONTROL DATA
BENCHMARK: BM18 ELEVATION: 6.31
NSRS BENCHMARK BENCHMARK: J340 (KU1006) ELEVATION: 60.49

CHANNEL COORDINATES

COORDINATES REFER TO US STATE PLANE (NAD 83), LIL

ID	Northing (Y)	Easting (X)
1	231219.303	1021692.282
2	234877.045	1020370.943
3	235144.146	1020238.629
4	235602.386	1019581.409
5	235915.695	1019581.409
6	236690.189	1017781.454
7	237643.363	1016710.596
8	237838.407	1016667.968
9	238654.474	1016406.479
10	239151.586	1016171.365
11	239400.432	1016095.482
12	239687.667	1016084.760
13	240474.472	1016182.114
14	240992.122	1016342.792
15	241005.717	1016564.654
16	241000.724	1016424.654
17	240972.610	1016439.563
18	240453.504	1016280.281
19	239383.946	1016184.971
20	239317.162	1016194.926
21	239187.745	1016264.883
22	238691.268	1016499.697
23	238034.779	1016710.053
24	237734.600	1016880.564
25	236845.726	1017756.019
26	236734.917	1019930.504
27	235900.653	1019869.368
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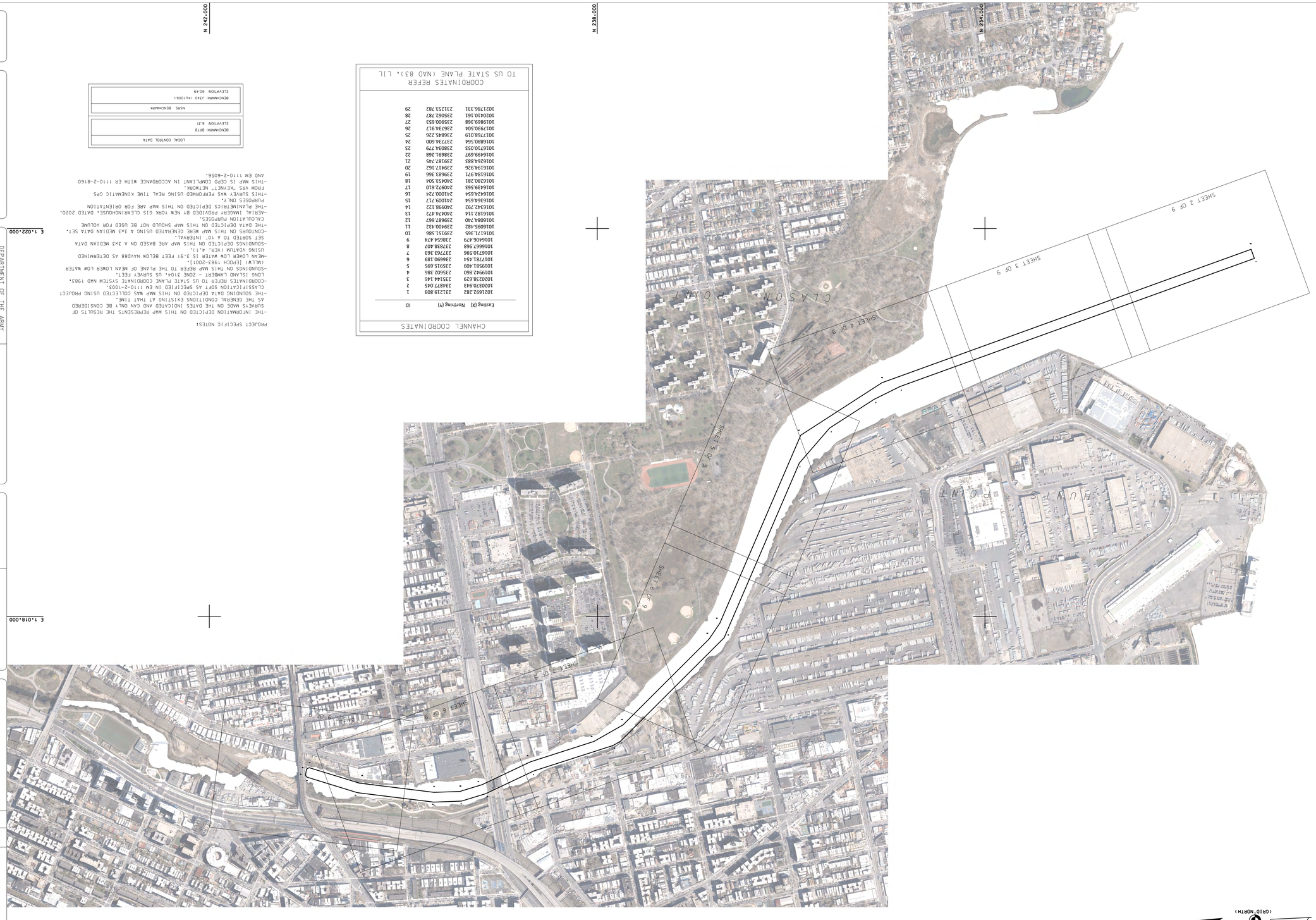
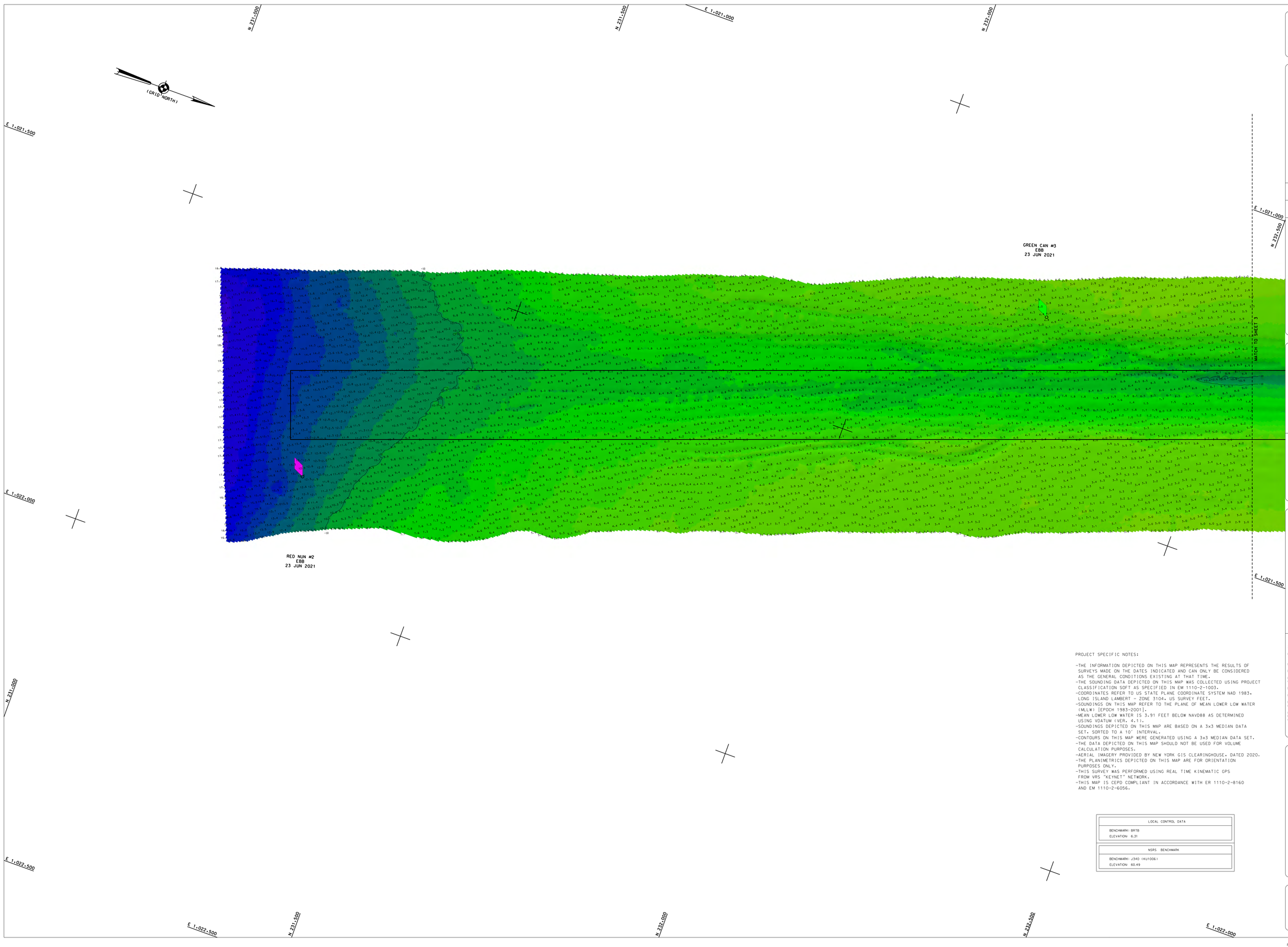
29	231253.782	1021786.331





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- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

LOCAL CONTROL DATA
BENCHMARK: BRTB ELEVATION: 6.31

NSRS BENCHMARK
BENCHMARK: J340 (KU1006) ELEVATION: 60.49

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
3420 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 442-2311
www.rogerssurveying.net

DATES OF SURVEY:
06/22/21 - 07/14/21

REQUEST NO/FILE NO: 5061

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
F.S.

APPROVED: D.ROGERS — FIELD CARTOGRAPHER
APPROVED: R.SMITH — PROJECT MANAGER
APPROVED: P.BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 08/05/2021

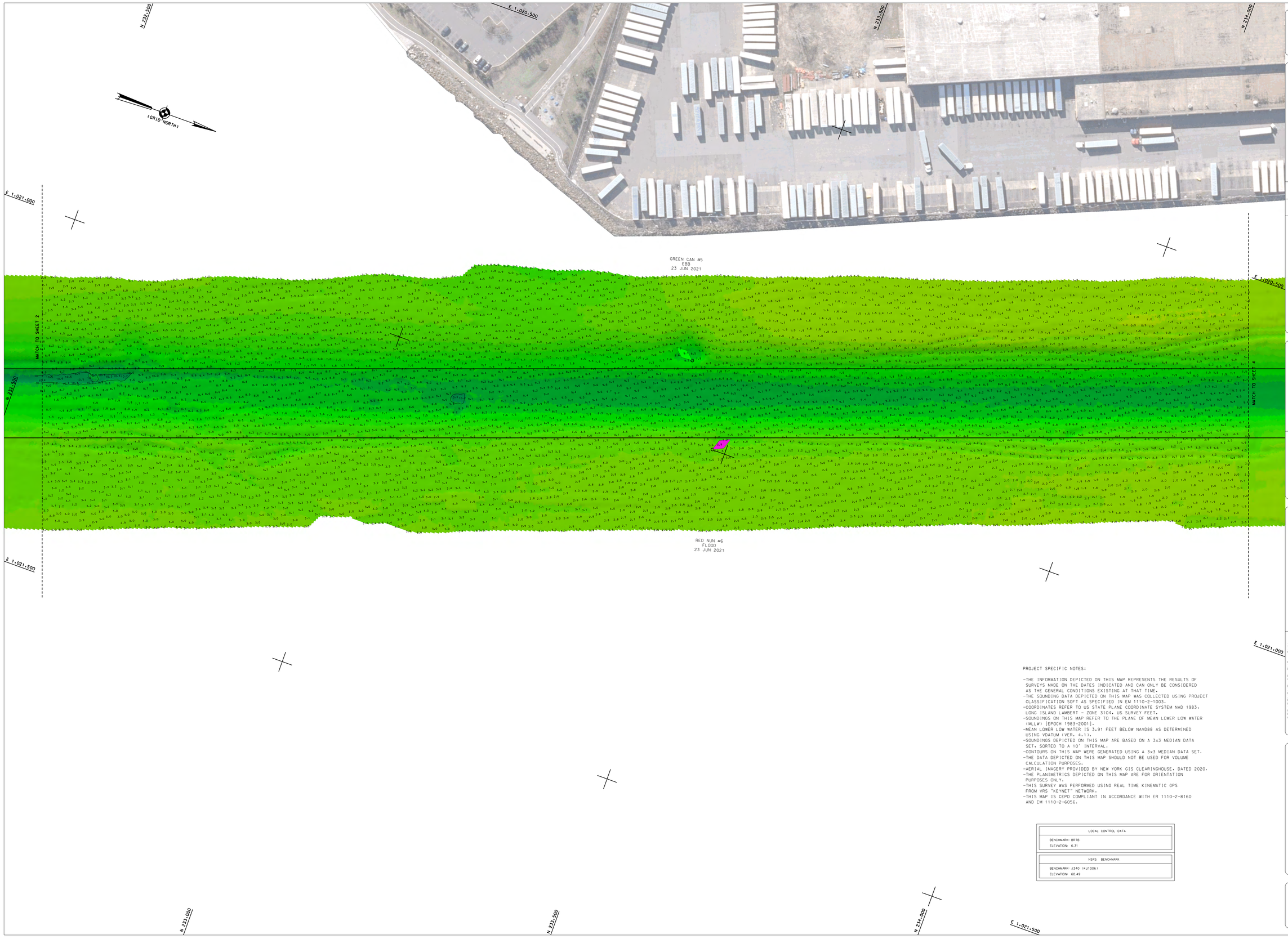
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

BRONX RIVER
NEW YORK
CONDITION SURVEY

VH-102

SHEET 2 OF 9



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LOCAL CONTROL DATA
BENCHMARK: BRTB ELEVATION: 6.31

NSRS BENCHMARK
BENCHMARK: J340 (KU1006) ELEVATION: 60.49

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
3420 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 647-2311
www.rogerssurveying.net

DATES OF SURVEY:
06/22/21 - 07/14/21

REQ NO./FILE NO.: 5061

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
F.S.

APPROVED: D.ROGERS — FIELD CARTOGRAPHER
APPROVED: R.SMITH — PROJECT MANAGER
APPROVED: P.BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 08/05/2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

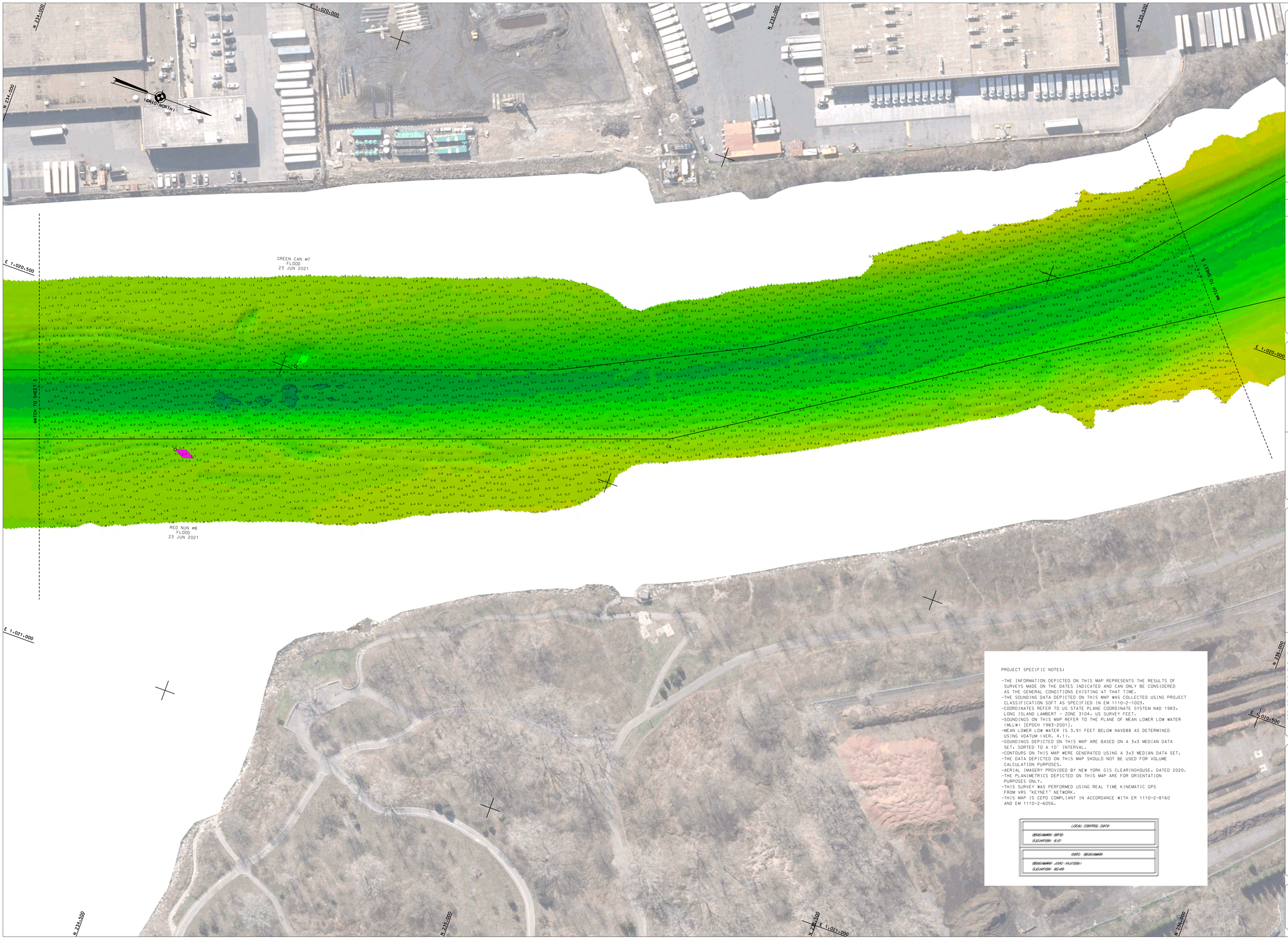
BRONX RIVER
NEW YORK
CONDITION SURVEY

VH-103

SHEET 3 OF 9

CORPS OF ENGINEERS

U. S. ARMY



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- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

LOCAL CONTROL DATA
(BENCHMARK) (BRIB)
(ELEVATION) (6.31)

NGRS (BENCHMARK
(BENCHMARK) (LSRD) (MLLW08)
(ELEVATION) (8.49)

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
3420 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 667-2511
www.rogerssurveying.net

DATES OF SURVEY: 06/22/21 - 07/14/21

RED NO./FILE NO.: 5061

SCALE: ONE INCH = 50 FEET

FIELD BOOKS: F.S.

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: R. SMITH — PROJECT MANAGER
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 08/05/2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

BRONX RIVER
NEW YORK
CONDITION SURVEY

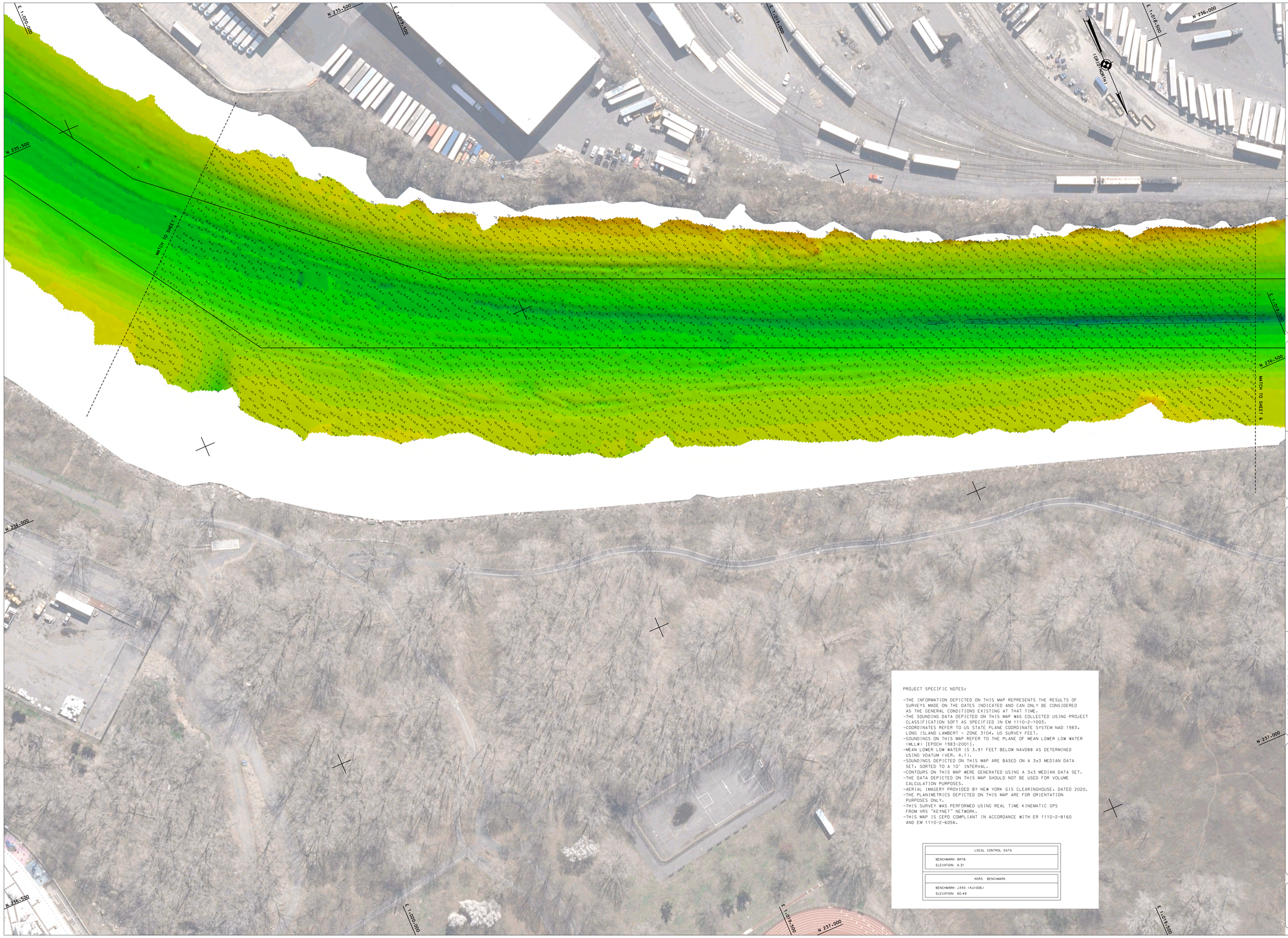
VH-104

SHEET 4 OF 9

RED NO./FILE NO.: 5061

CORPS OF ENGINEERS

U. S. AMERICA



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LOCAL CONTROL DATA
BENCHMARK: BRTB
ELEVATION: 6.31

NSRS BENCHMARK
BENCHMARK: J340 (KU1006)
ELEVATION: 60.49

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
3420 Arthur Kill Rd.
Staten Island, NY 10309
(718) 447-3191
www.rogerssurveyingplcnet

DATES OF SURVEY:
06/22/21 - 07/14/21

REQ NO./FILE NO.: 5061

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
F.S.:

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: R. SMITH — PROJECT MANAGER
APPROVED: P. BRABOUR — CHIEF CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 08/05/2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

BRONX RIVER
NEW YORK
CONDITION SURVEY

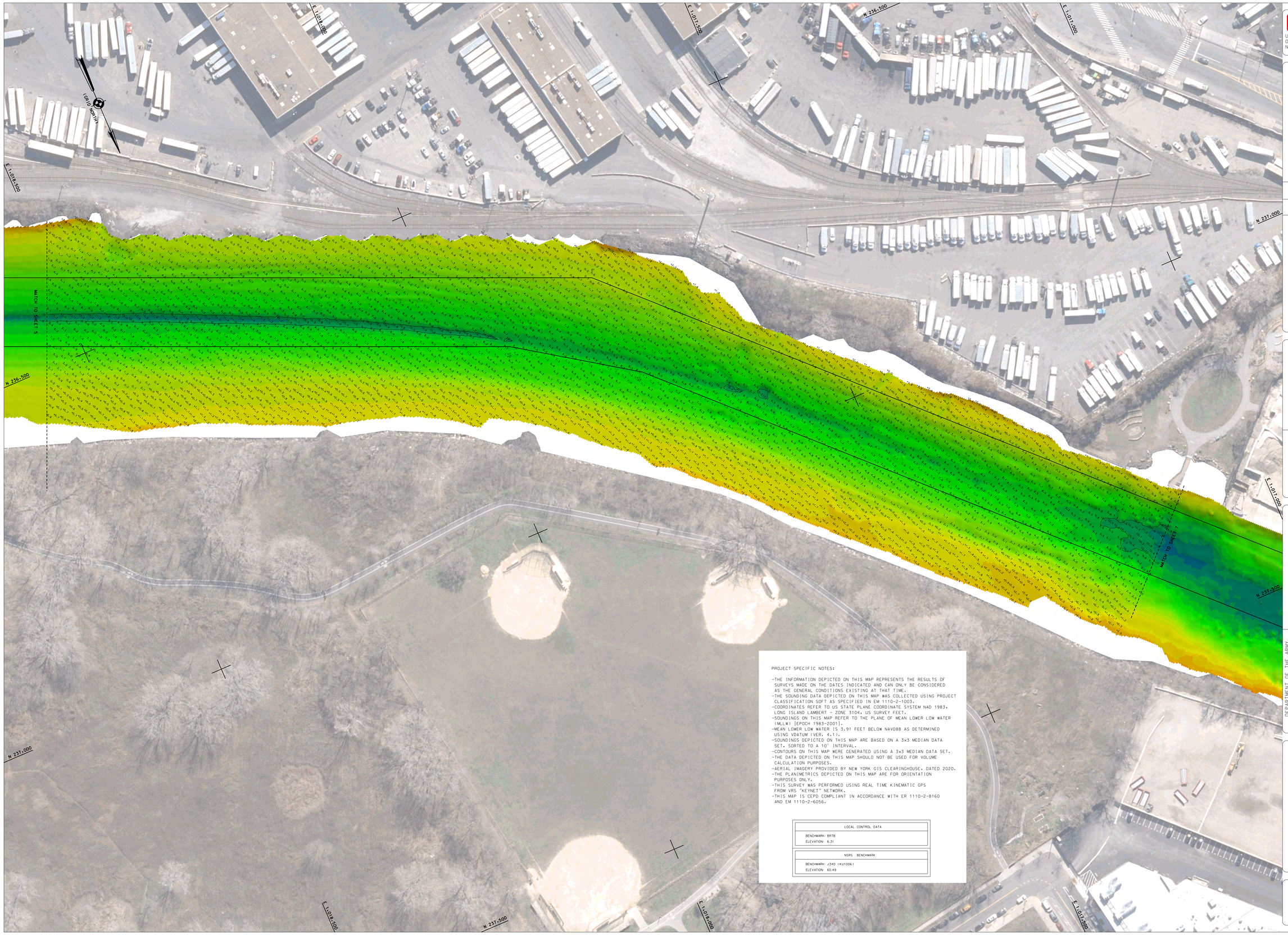
VH-105

SHEET 5 OF 9

REQ NO./FILE NO.: 5061

CORPS OF ENGINEERS

U. S. ARMY



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LOCAL CONTROL DATA
BENCHMARK: BRTB ELEVATION: 6.31

NSRS BENCHMARK
BENCHMARK: J340 (KU1006) ELEVATION: 60.49

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
3420 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 642-3311
www.rogerssurveying.net

DATES OF SURVEY:
06/22/21 - 07/14/21

REQ NO./FILE NO.: 5061

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
F.S.

APPROVED: D.ROGERS — FIELD CARTOGRAPHER
APPROVED: R.SMITH — PROJECT MANAGER
APPROVED: P.BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 08/05/2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

BRONX RIVER
NEW YORK
CONDITION SURVEY

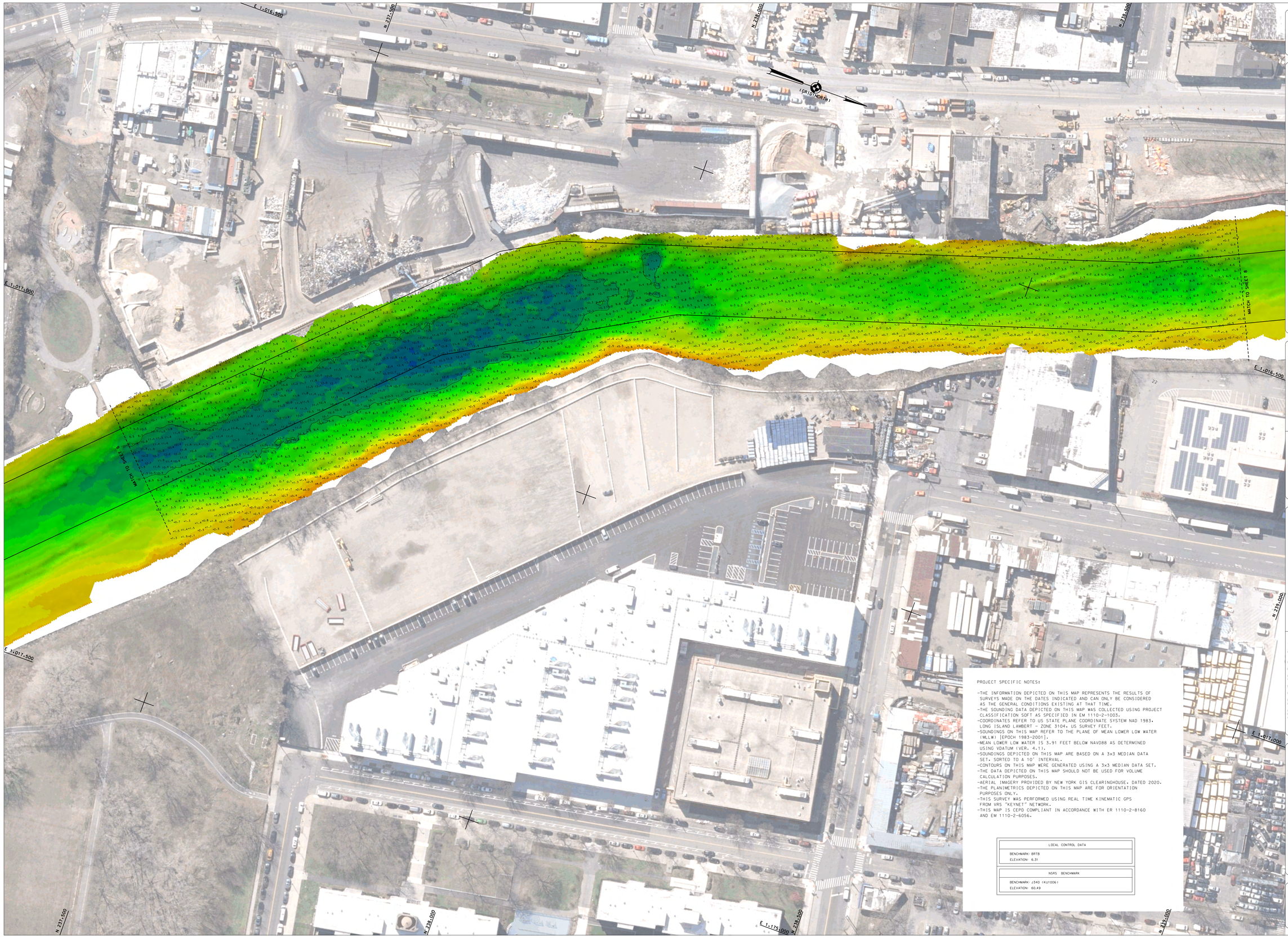
VH-106

SHEET 6 OF 9

REQ NO./FILE NO.: 5061

CORPS OF ENGINEERS

U. S. ARMY



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LOCAL CONTROL DATA
BENCHMARK: BRTB
ELEVATION: 6.31

NSRS BENCHMARK
BENCHMARK: J340 (KU1006)
ELEVATION: 60.49

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING PLLC
340 Arthur Kill Rd.
Staten Island, NY 10309
(718) 447-7311
www.rogerssurveying.net

DATES OF SURVEY:
06/22/21 - 07/14/21

REQ NO./FILE NO.: 5061

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
J.S.

APPROVED: D. ROGERS	FIELD SUPERVISOR	
APPROVED: R. SMITH	PROJECT MANAGER	
APPROVED: E. BRADLEY	CAD COORDINATOR	
APPROVED: J. MRAZ	BRANCH CHIEF OF SURVEY	
DATE: 08/05/2021		

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

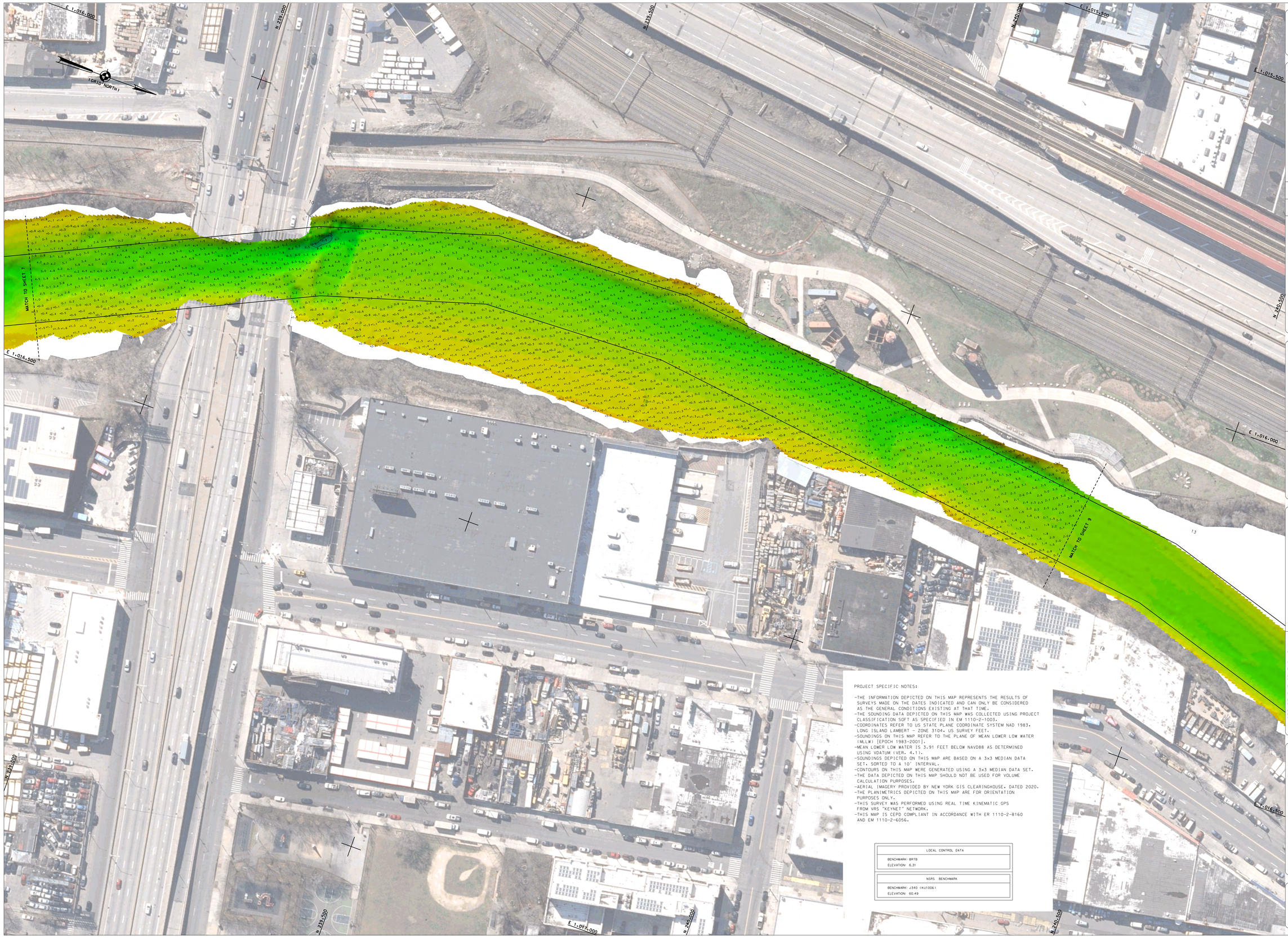
BRONX RIVER
NEW YORK
CONDITION SURVEY

VH-107

SHEET 7 OF 9

CORPS OF ENGINEERS

U. S. ARMY



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LOCAL CONTROL DATA
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NSRS BENCHMARK
BENCHMARK: J340 (KU1006) ELEVATION: 60.49

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
2420 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 667-2151
www.rogerssurveying.net

DATES OF SURVEY:
06/22/21 - 07/14/21

RED NO./FILE NO.: 5061

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
F.S.

APPROVED: D.ROGERS — FIELD CARTOGRAPHER
APPROVED: R.SMITH — PROJECT MANAGER
APPROVED: P.BHADUR — LEAD CARTOGRAPHER
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NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

BRONX RIVER
NEW YORK
CONDITION SURVEY

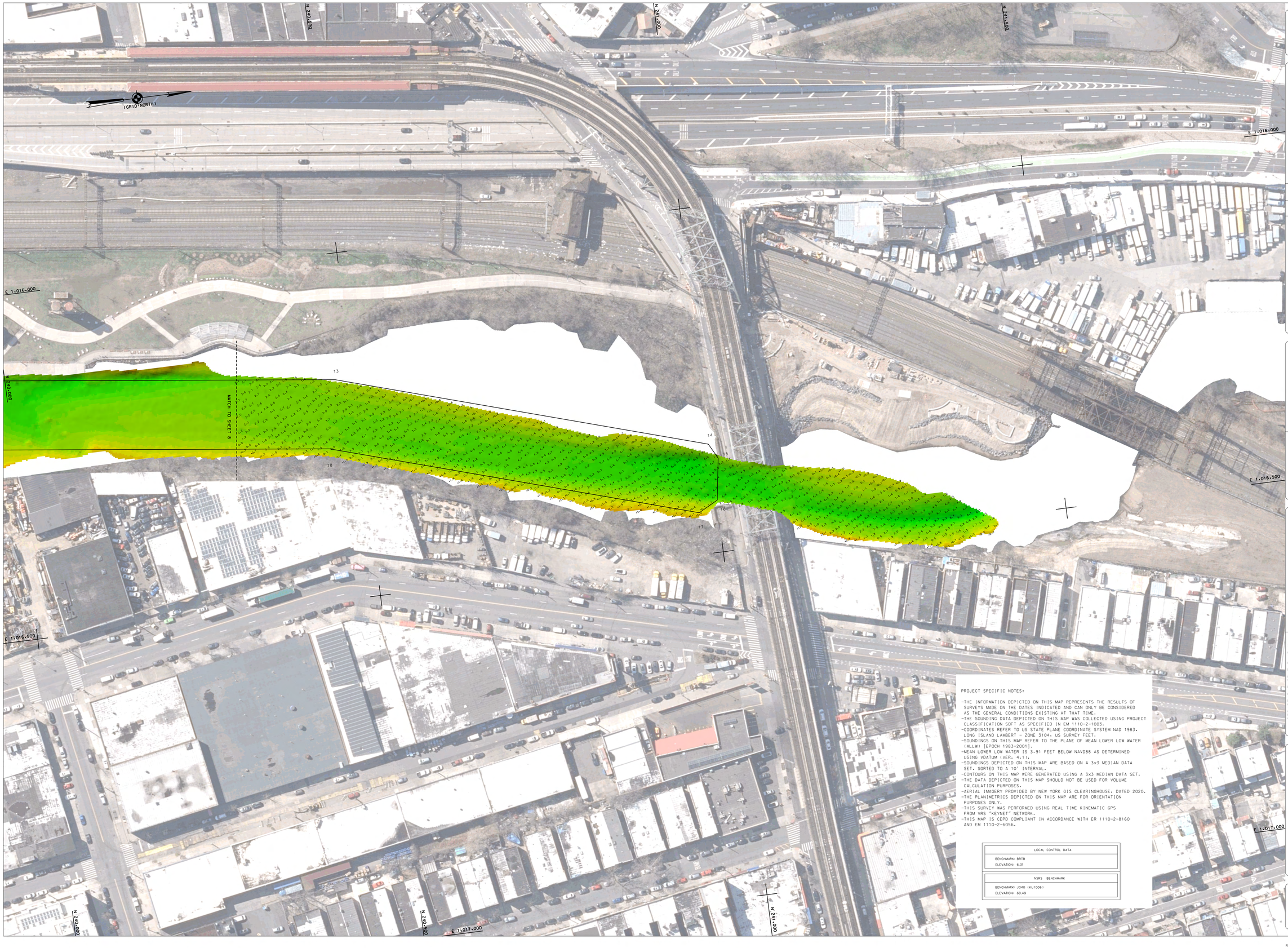
VH-108

SHEET 8 OF 9

RED NO./FILE NO.: 5061

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 SOFT 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 3.91 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.1).
-SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3x3 MEDIAN DATA SET, SORTED TO A 10' INTERVAL.
-CONTOURS ON THIS MAP WERE GENERATED USING A 3x3 MEDIAN DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-AERIAL IMAGERY PROVIDED BY NEW YORK GIS CLEARINGHOUSE, DATED 2020.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

LOCAL CONTROL DATA
BENCHMARK: BRTB ELEVATION: 6.31

NSRS BENCHMARK
BENCHMARK: J340 (KU1006) ELEVATION: 60.49

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
3435 Arthur Ave Rd.
Staten Island, N.Y. 10309
(718) 442-7311
www.rogerssurveying.net

DATES OF SURVEY:
06/22/21 - 07/14/21

REQ NO./FILE NO.: 5061

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
F.S.

APPROVED: D.ROGERS — FIELD CARTOGRAPHER
APPROVED: R.SMITH — PROJECT MANAGER
APPROVED: P.BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 08/05/2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

BRONX RIVER
NEW YORK
CONDITION SURVEY

VH-109

SHEET 9 OF 9

REQ NO./FILE NO.: 5061