

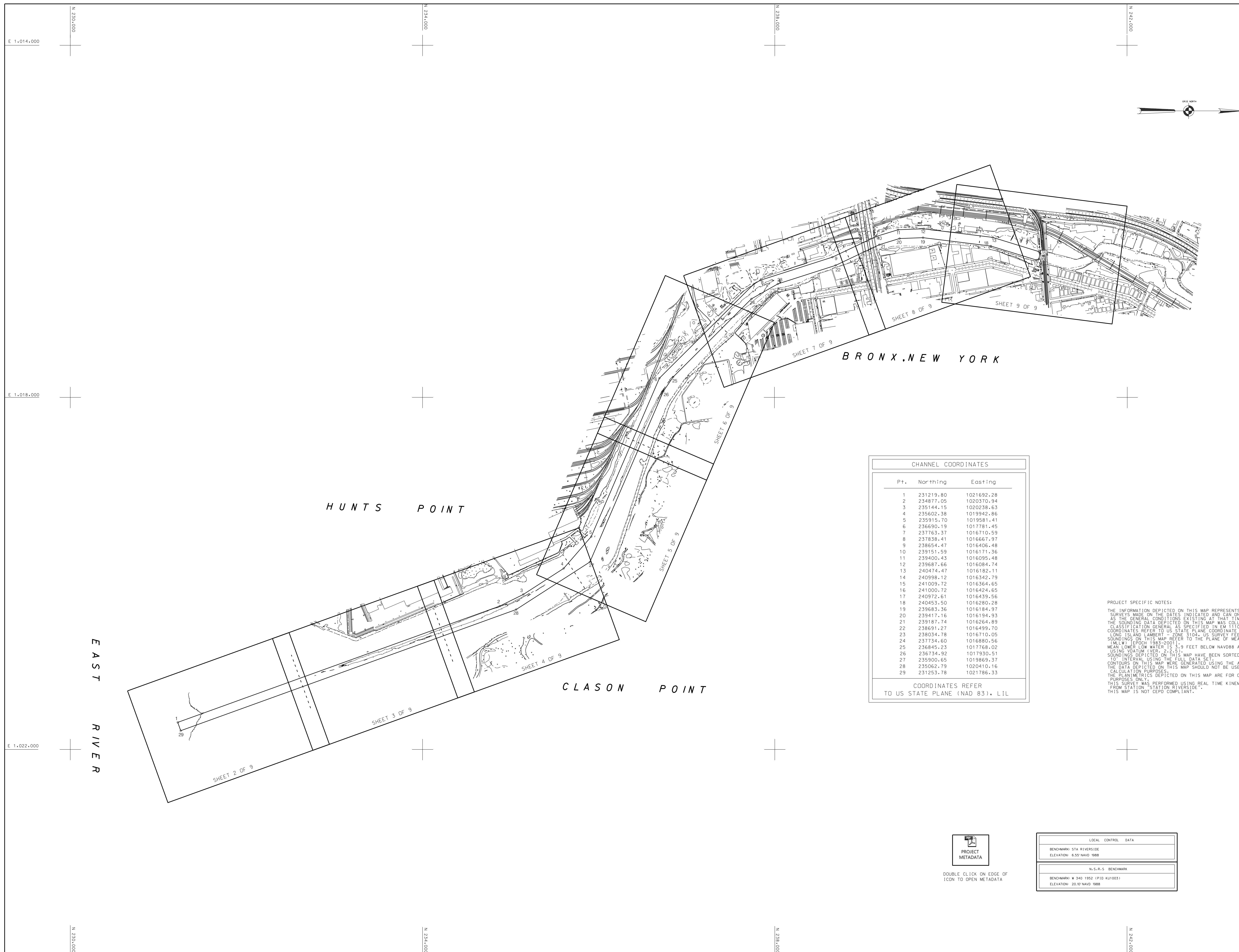
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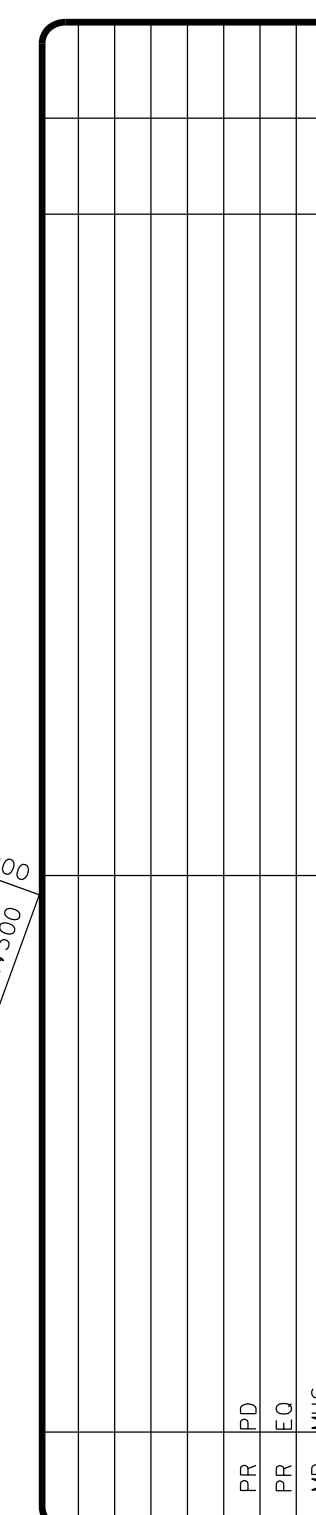
DEPARTMENT OF THE ARMY NEW YORK DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK 10278	APPROVED: J. J. ABRAHAMSEN TACTIC COMMANDER
	APPROVED: M. FORTI CIVIL ENGINEERING FUNCTION
	APPROVED: D. CLARKE TACTIC COMMANDER
	APPROVED: J. J. MRAZ DEPUTY CHIEF OF STAFF DATE: 15 MAY 2014

BRONX RIVER
NEW YORK
CONDITION SURVEY

VH-101

SHEET 1 OF 9





FILE NO.: 52

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: J. ABRAHAMSEN
FIELD ENGINEER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
GRAPHIC DESIGNER

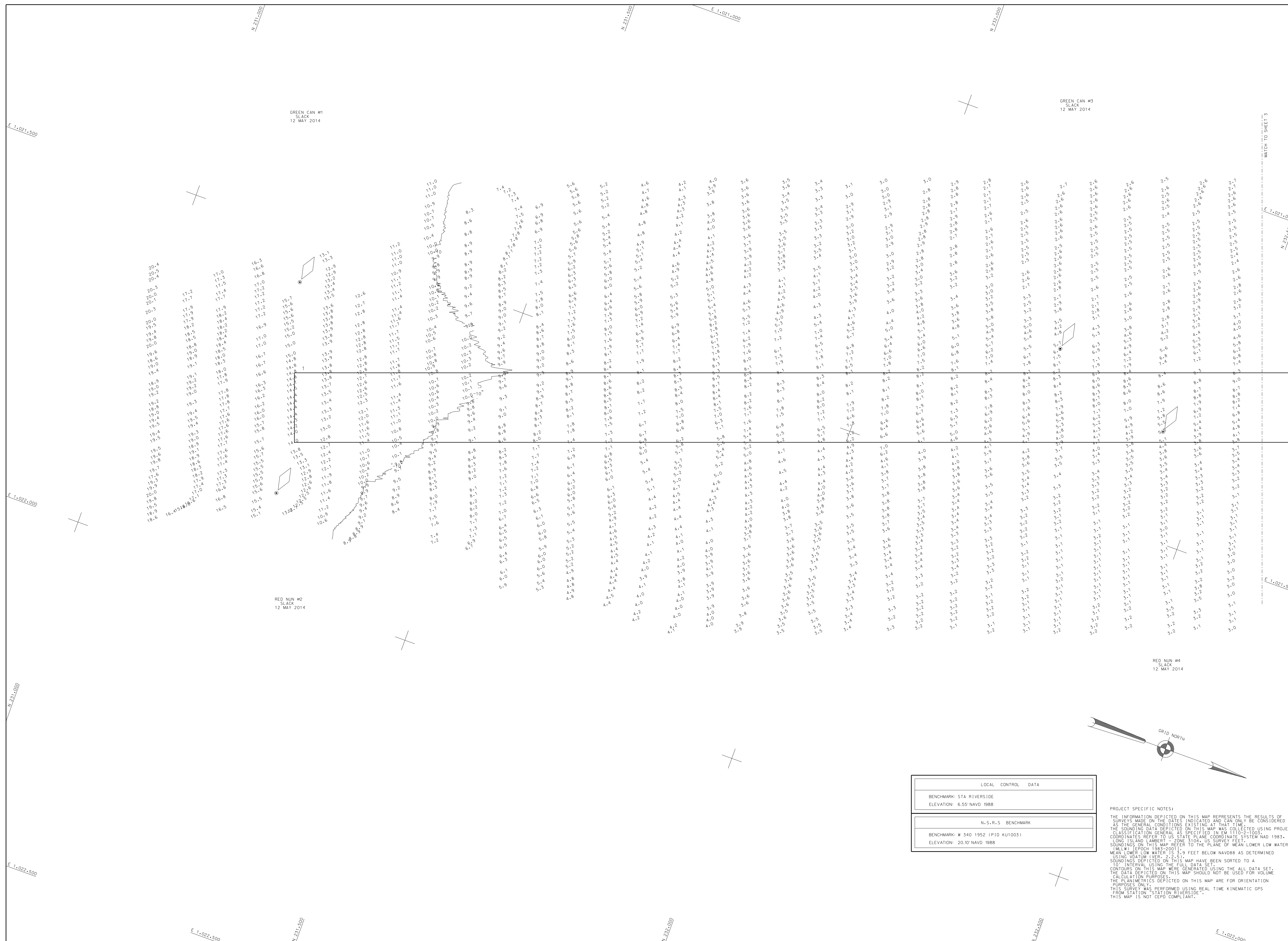
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

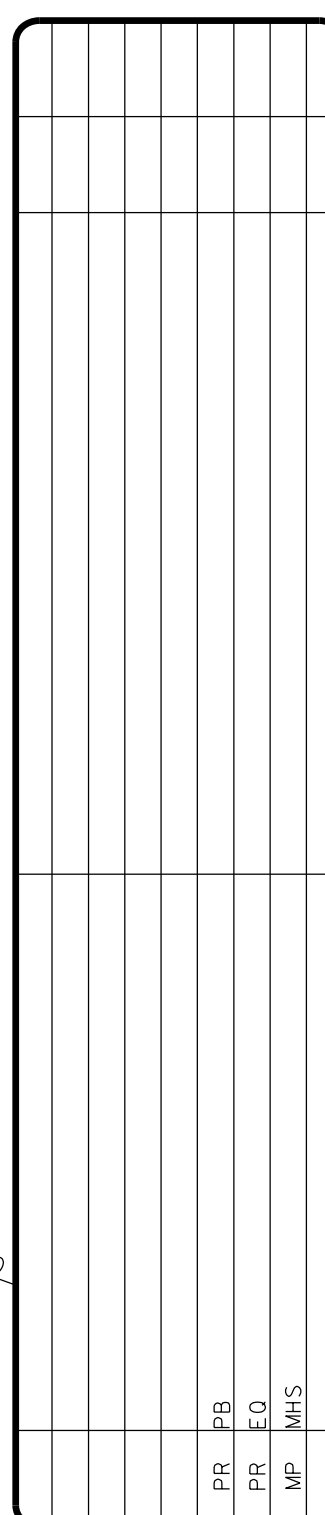
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

CT
BRONX RIVER
NEW YORK
CONDITION SURVEY

VH-102

SHEET 2 OF 9

[illegible]



DATES OF SURVEY:
6 DEC 2013, 18 MARCH,
17 & 28 APRIL 2014

FILE NO.: 52
REQUEST NO.: 4067 A/P13

SCALE: ONE INCH = 50 FEET	FIELD BOOKS: _____ _____ _____
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APPROVED: J. ABRAHAMSEN
TITLE: CHAIRMAN

APPROVED: M. FORTE
TITLE: CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
TITLE: CHAIRMAN

APPROVED: J. BRAZ
TITLE: CHIEF OF STAFF

DATE: 15. MAY 2014

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



PROJECT SPECIFIC NOTES:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE AREAS 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 80-100, A HYDROGRAPHIC SURVEY SPECIFIED IN ENR 1110-2-100.

COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 83, LONG ISLAND LAMBERT - ZONE 1104, US SURVEY FEET.

THIS MAP DOES NOT REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) [EPCHD 1983-2001].

MEAN LOWER LOW WATER IS 3.9 FEET BELOW NAVD83 AS DETERMINED USING DATUM TRANSFORMATION EQUATION 2-2-1.

SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 10' INTERVAL USING THE FULL DATA SET.

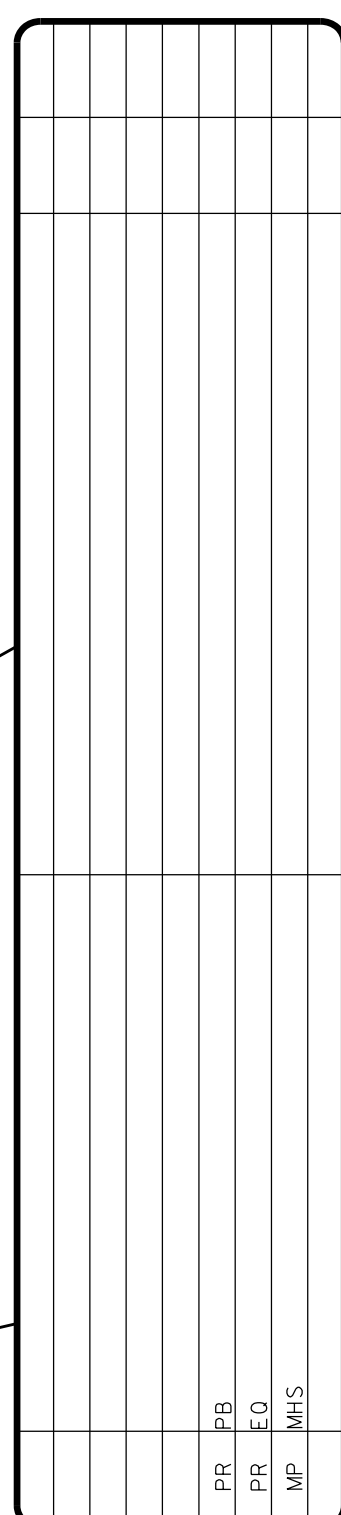
CONTOURS ON THIS MAP WERE DERIVED USING THE ALL DATA SET.

THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.

THE PLANNIMAGES DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS MAP WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION 76 ON RIVERVIEW RD.

THIS MAP IS NOT COPY COMPLIANT.



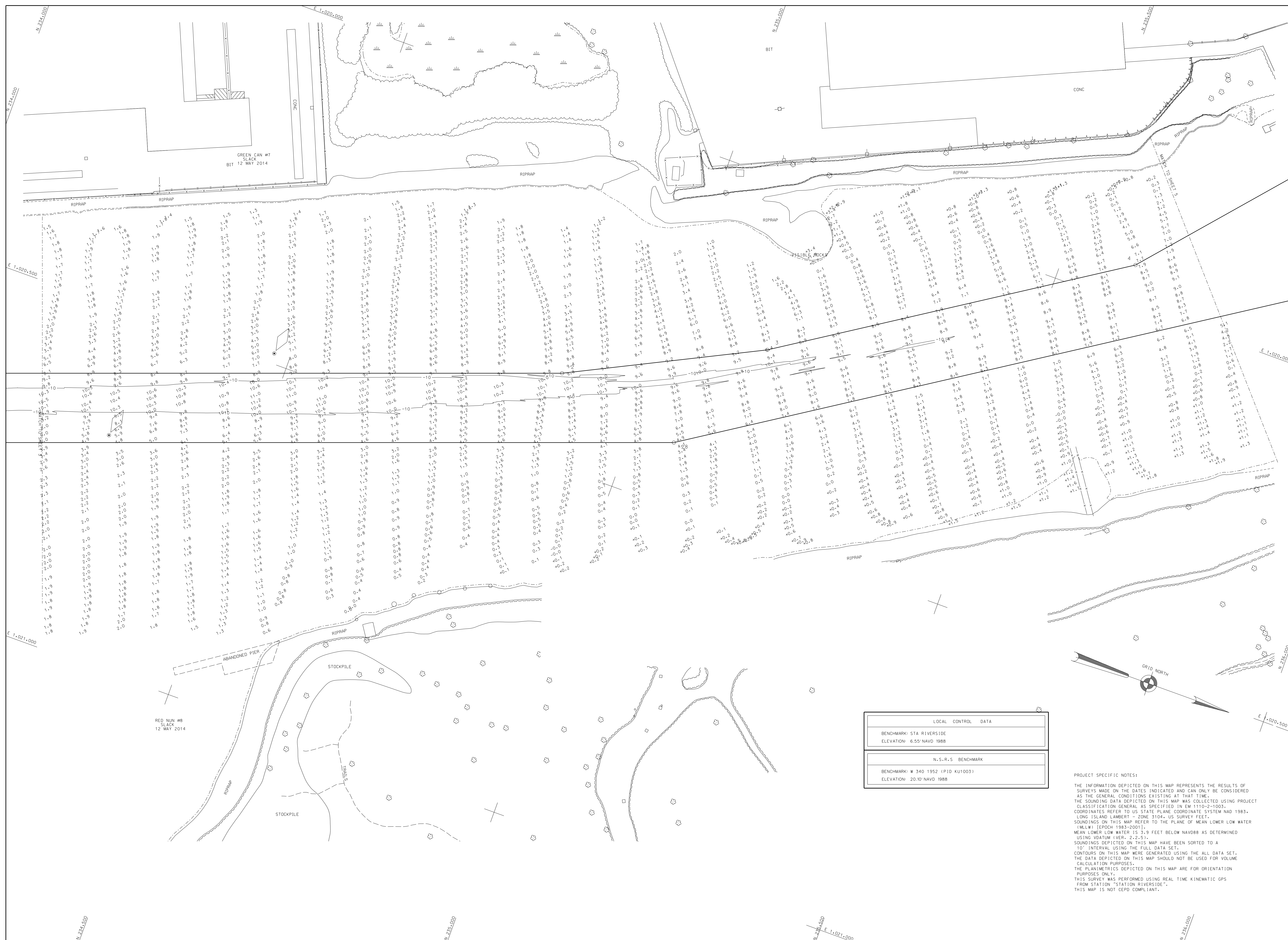
SCALE: ONE INCH = 50 FEET	DATES OF SURVEY: 5 DEC 2013, 18 MARCH, 17 & 28 APRIL 2014
FIELD BOOKS: _____ _____ _____	FILE NO.: 52 REQUEST NO.: 4067 A/N3

DEPARTMENT OF THE ARMY NEW YORK DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK 10278	APPROVED: J. J. ABRAMAMSEN DATE: 15 MAY 2014
	APPROVED: M. F. FORTE DATE: 15 MAY 2014
OPERATIONS DIVISION SURVEY SECTION CENAN-OPS	APPROVED: D. CLARKE DATE: 15 MAY 2014

BRONX RIVER
NEW YORK
CONDITION SURVEY

VH-104

SHEET 4 OF 9



PROJECT SPECIFIC NOTES:

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) 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 SPECIFICATION OF THE SOUNDING SPECIFIC IN EN 11111-1003.

COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983, LONG ISLAND LAMBERT - ZONE 104A, 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 3-5 FEET BELOW NAVD83 AS DETERMINED BY US VOTED WATERWAYS.

SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 10' INTERVAL USING THE FULL DATA SET.

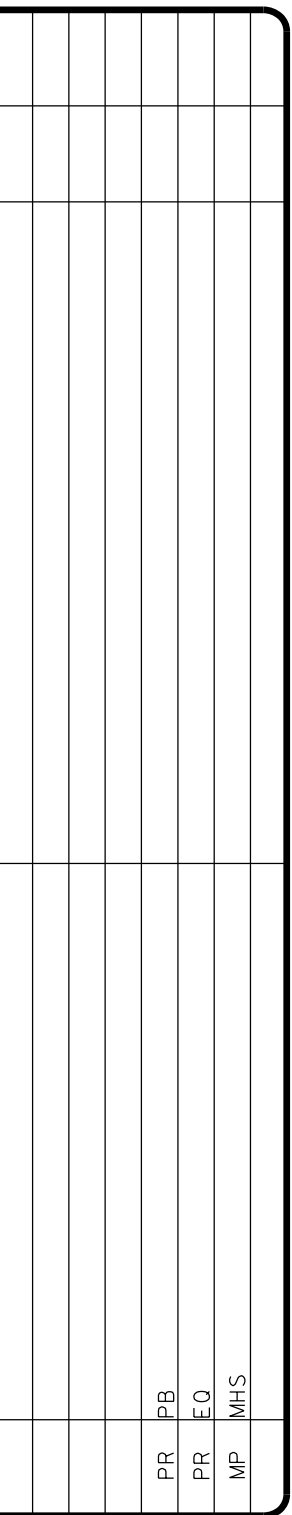
OUTBOURS ON THIS MAP HAVE BEEN USING THE ALL DATA SET.

THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.

PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATICS "STAR LINE" RECEIVER.

THIS MAP IS NOT CEP COMPLIANT.



FILE NO.: 52
REQUEST NO.: 4067 A/N3

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: J. ADRIANSEN
FIELD CATEGORIZER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CATEGORIZER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 15 MAY 2014

NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10277

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

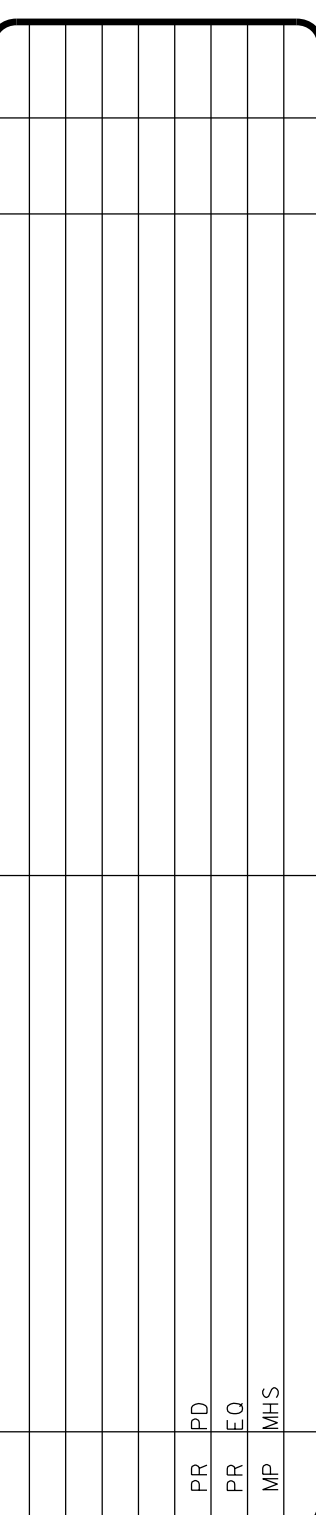
BRONX RIVER
NEW YORK
CONDITION SURVEY

VH-105
 EET 5 OF 9



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 CONCEPT OF THE LOCATION OF THE DATA AT THAT TIME. THE SOUNDING DATA DEPICTED ON THIS MAP WAS OBTAINED USING PROJECT CLASSIFICATION GENERAL AS SPECIFIED IN EM 1110-2-1003. COORDINATES OF THE SOUNDING DATA WERE OBTAINED FROM A LOW WATER 1983, LONG ISLAND LAMBERT - ZONE 3104, US SURVEY FEET. SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER. MEAN LOWER LOW WATER IS 3.9 FEET BELOW NAVD80 AS DETERMINED USING DATUM (VFR - 2.2,5). 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 ALL DATA SET. THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES. THE PLAINTEXT INFORMATION ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY. THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS POSITION DATA. THIS MAP IS NOT CEPO COMPLIANT.



FILE NO.: 52
REQUEST NO.: 4067 A/N3

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:

APPROVED: J. ABRAHAMSEN
FIELD SUPERVISOR

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LEAD CADD/DRAWER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 15 MAY 2014

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

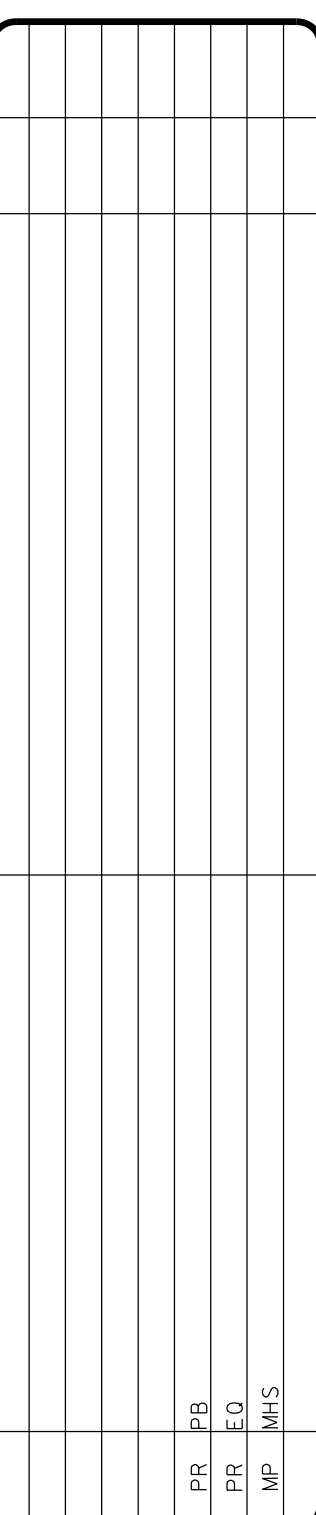
BRONX RIVER
NEW YORK
CONDITION SURVEY

SHEET 6 OF 9



PROJECT SPECIFIC NOTES:

[illegible]



SCALE: ONE INCH = 50 FEET	FIELD BOOKS: 	DATES OF SURVEY: 6 DEC. 2013, 18 MARCH, 17A, 28 APRIL 2014 	FILE NO.: 52 REQUEST NO.: 4067 A/N3
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APPROVED: J. ABRAHAMSEN
FIELD SUPERVISOR

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE
LOCAL SUPERVISOR

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 15 MAY 2014

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

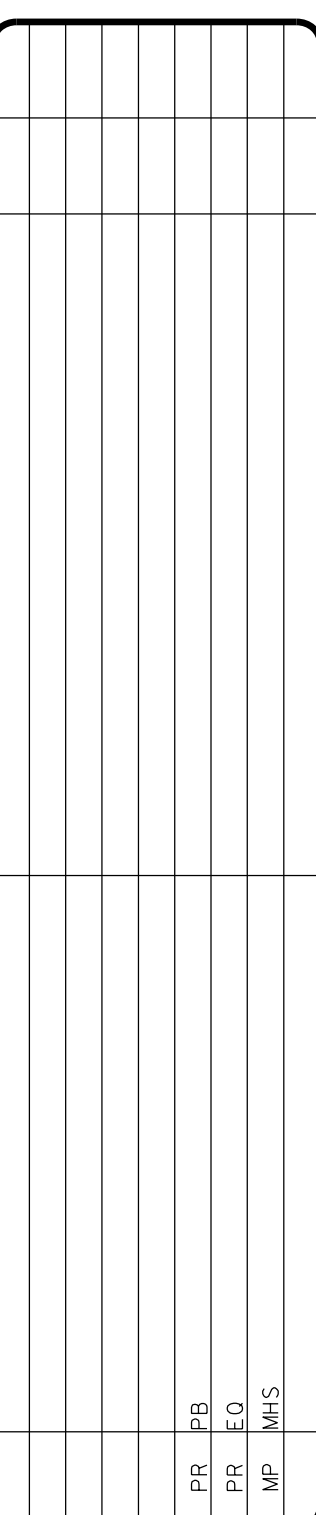
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

BRONX RIVER
NEW YORK
CONDITION SURVEY

VH-107

SHEET 7 OF 9

[illegible]



DATES OF SURVEY:
 6 DEC 2013, 18 MARCH,
 17 & 28 APRIL 2014

FILE NO.: 52
 REQUEST NO.: 4067 4/N3

SCALE:
ONE INCH = 50 FEET

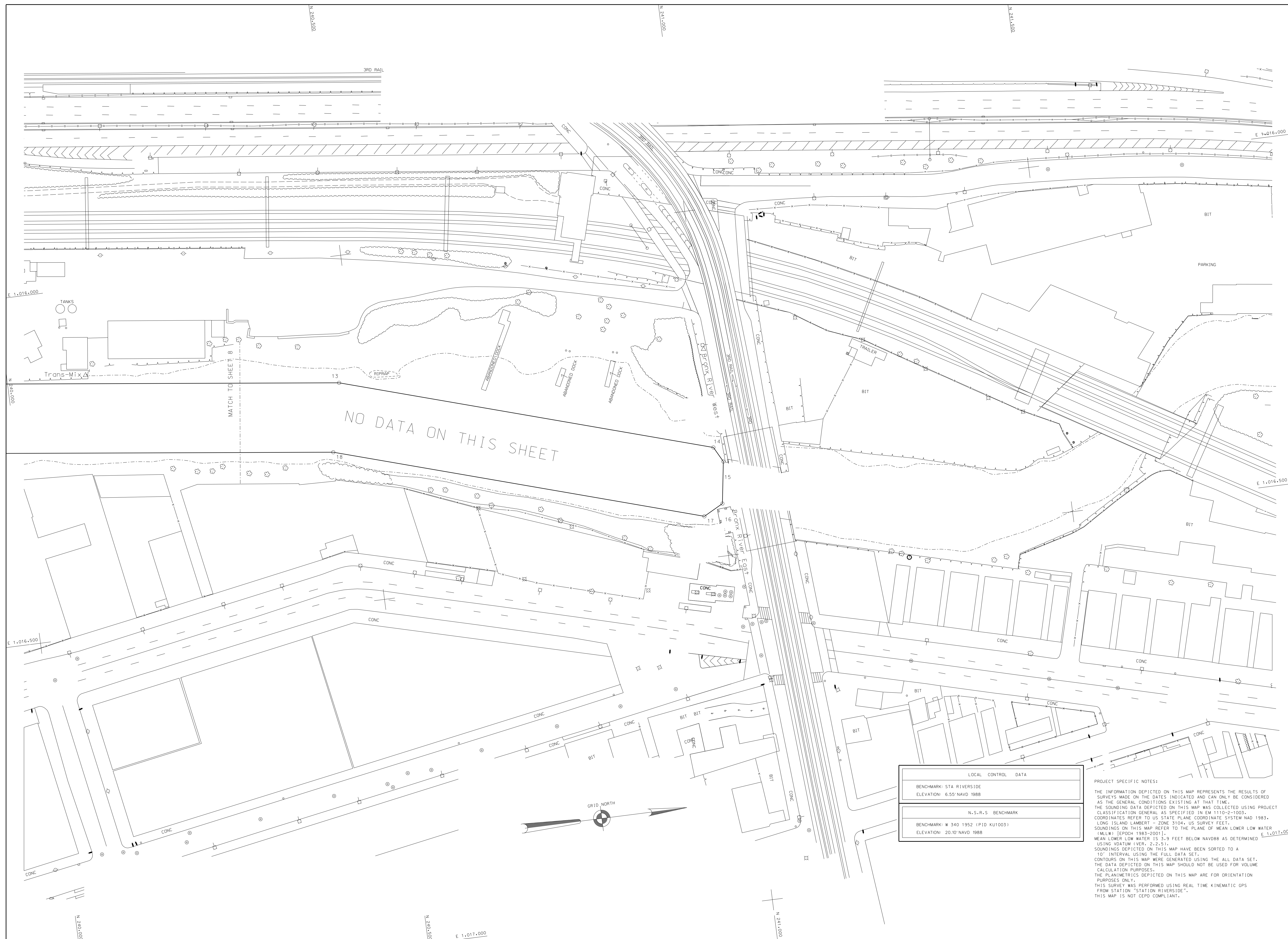
FIELD BOOKS:

DEPARTMENT OF THE ARMY OFFICE OF THE CHIEF OF ENGINEERS CORPS OF ENGINEERS NEW YORK, NEW YORK 10278	OPERATIONS DIVISION SURVEY SECTION CEMAN-04-S	APPROVED: J. ARMBRANEN FIELD ENGINEER	APPROVED: J. MAZ2 CHIEF OF UNIT
APPROVED: M. FORT CIVIL ENGINEERING SECTION	APPROVED: D. CLARKE TUG 2303000400	APPROVED: J. ARMBRANEN FIELD ENGINEER	DATE: 15 MAY 2014

BRONX RIVER
NEW YORK
CONDITION SURVEY

VH-109

SHEET 9 OF 9

[illegible]