[illegible]

SCALE: ONE INCH = 1000 FEET	DATES OF SURVEY: 26 NOVEMBER — 16 DECEMBER _____ _____ _____
FIELD BOOKS: _____ _____ _____	FILE NO.: 4890 REQUEST NO.: 4890/01

APPROVED: BERIOLOTTI
FIELD COMMANDER

APPROVED: M. FORTE
CIVIL ENGINEERING SECTION

APPROVED: D. CLARKE
LAW COMMANDER

APPROVED: J. NRAY
DATE: 27 JANUARY 2020

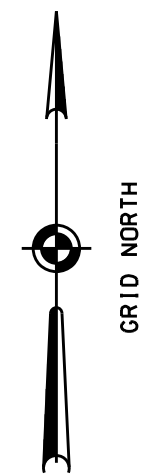
RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-101

SHEET 1 OF 11

FILE NO. 4890
REQ. NO. 4890 N1

TABULATION OF CHANNEL COORDINATES U.S. STATE ROUTE, NO. 83 ZONE 2900, NEW JERSEY, U.S. FEET		
EASTING	NORTHING	POINT
562332.896	602237.683	X6
561921.440	601741.955	2A
562377.602	601543.063	13
563006.270	601460.070	3
559027.490	601693.550	4
558665.930	601808.010	4A
558732.040	601388.590	5
556294.940	603536.866	6
555236.714	603935.776	7
555417.554	603935.776	8
553156.540	604543.280	9
554004.820	605935.130	10
552533.540	605907.460	11
552614.160	606372.610	12
551799.070	607199.350	13
552232.620	607043.720	14
552027.930	607599.100	14A
551534.230	608502.010	15
551717.170	608502.010	16
551329.320	609137.270	17
551210.180	609346.430	17A
551287.470	609816.800	18
550812.690	609774.340	19
549475.340	610672.550	19A
549346.600	611220.370	20
548933.470	610904.830	21
548845.640	611006.500	21A
548496.420	611036.910	22
547062.360	610892.200	23
546493.630	610736.740	23A
546682.880	611162.740	24
545920.310	610457.710	25
545666.630	610570.510	26
545489.990	610133.410	27
545450.060	610103.330	27A
544666.950	609511.860	28
543096.680	609561.170	29
542987.700	608788.920	30
541134.390	606437.390	31
540883.810	606608.220	32
540945.550	606047.320	33
540555.650	605353.610	33A
540670.170	604945.140	33B
540679.760	606186.290	34
540302.710	604291.380	35
539964.260	604176.400	35A
539364.240	603845.450	35B
539363.260	603845.450	36
544897.390	609488.400	37
544595.010	608983.140	37A
543562.230	606122.080	38
543280.080	606223.930	39A



GARDEN STATE PARKWAY.

HWY 35 VICTORY BRIDGE

PERTH AMBOY

STATEN ISLAND

NEW JERSEY C.R.R. BRIDGE

SOUTH AMBOY

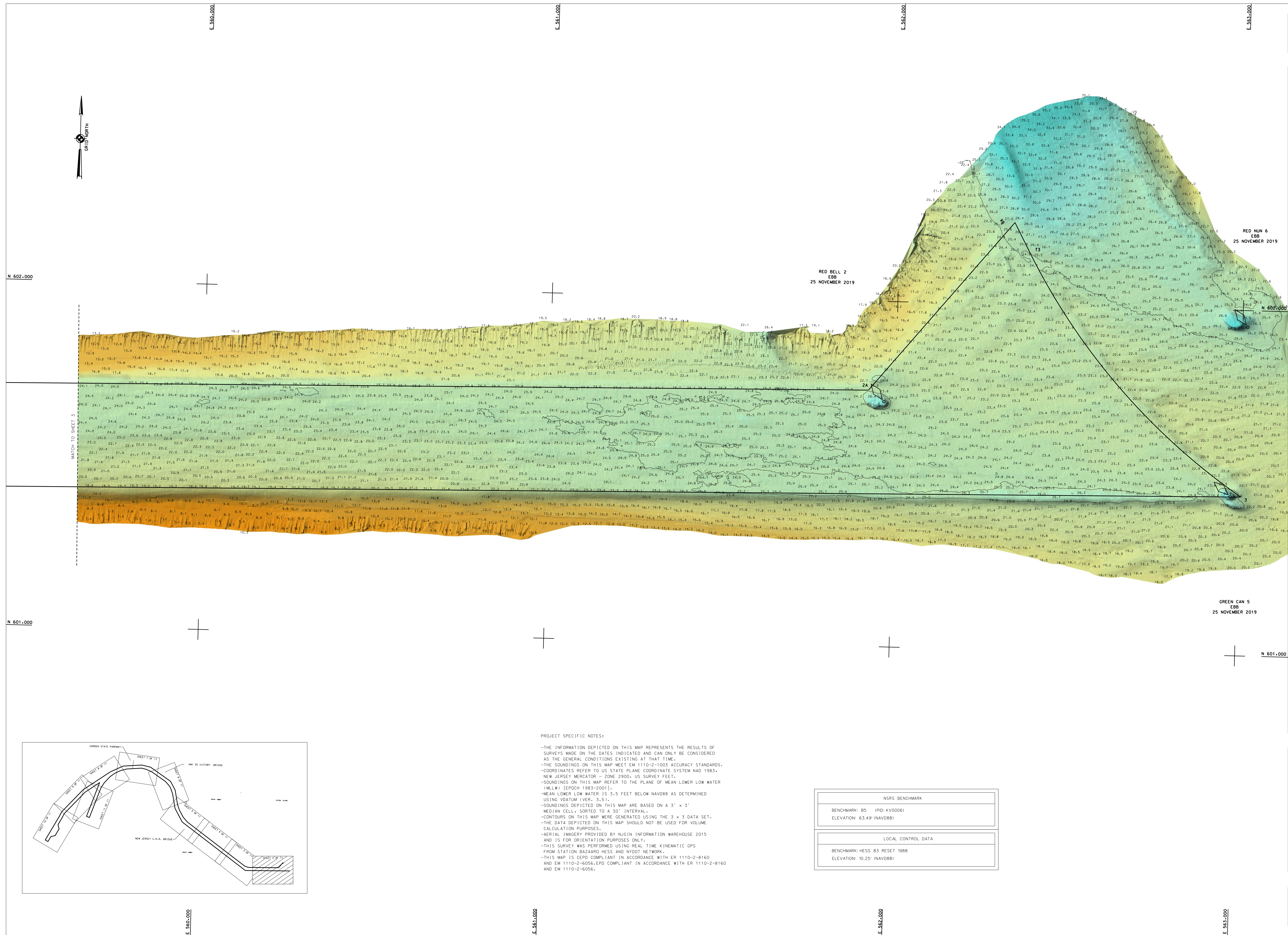
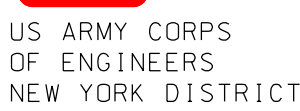
SHEET 2 OF 11

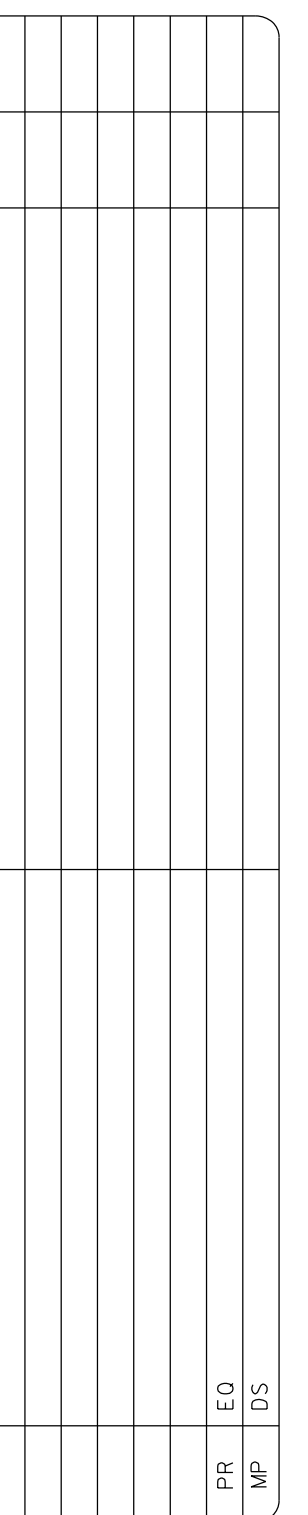
NSRS BENCHMARK	
BENCHMARK: 85	(PID: KV0006)
ELEVATION: 63.49' (NAVD88)	

LOCAL CONTROL DATA	
BENCHMARK: HESS 83	RESET 1988
ELEVATION: 10.25' (NAVD88)	

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 A GUIDE TO THE LOCATION OF EXISTING OBSTRUCTIONS.
- THE SOUNDINGS ON THIS MAP ARE TO THE 1110-2-1003 AIRCRAFT STANDARDS.
- COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 83 (1983).
- THE SOUNDINGS ON THIS MAP ARE TO THE 1110-2-1003 AIRCRAFT STANDARDS.
- SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) [EPOCH 1983-2001].
- MEAN LOWER LOW WATER IS 1.5 FEET BELOW NAVD83 AS DETERMINED USING DATUM VERT (VER, 3.5).
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL SIZE, APPROXIMATE 10' 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 CALCULATIONS.
- AERIAL IMAGERY PROVIDED BY NUN INFORMATION WAREHOUSE 2015 AND IS FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING THE TIME KINETICOPS DATA FROM STATION BAZARD HESS AND NYDOT NETWORK.
- THIS MAP IS CERO COMPLIANT IN ACCORD WITH 1110-2-8160





SCALE. ONE INCH = 100 FEET	FIELD BOOKS: _____ _____ _____	DATES OF SURVEY. 20 NOVEMBER - 7 JANUARY 2020 _____ _____
		FILE NO.: 4890 REQUEST NO.: 4890/NH

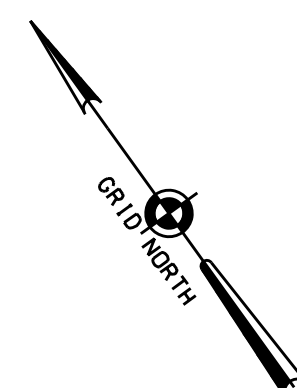
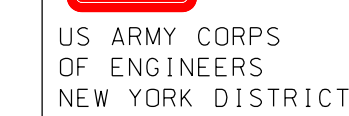
PROCESSED BY THE OFFICE OF THE CHIEF OF POLICE
NEW YORK, NEW YORK 10278
OPERATIONS DIVISION
SURVEY SECTION
CEMAN-QP-S
APPROVED: MR. FORTE CIVIL, NUTRITION, TOXICOLOGY
APPROVED: DR. CLARKE LAW ENFORCEMENT
APPROVED: J. WEAT FORENSIC CASE & SCENE
DATE: 21 JANUARY 2020

RAITIAN RIVER
NEW JERSEY
CONDITION SURVEY

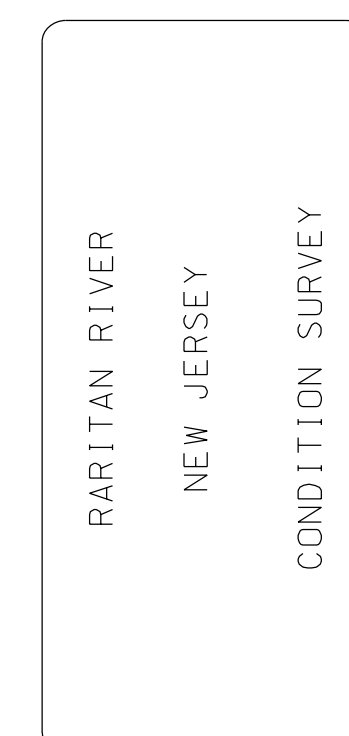
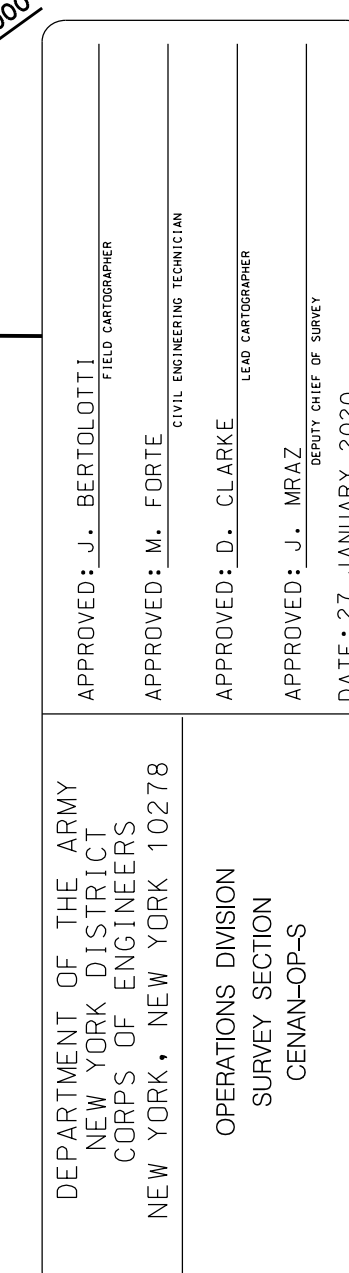
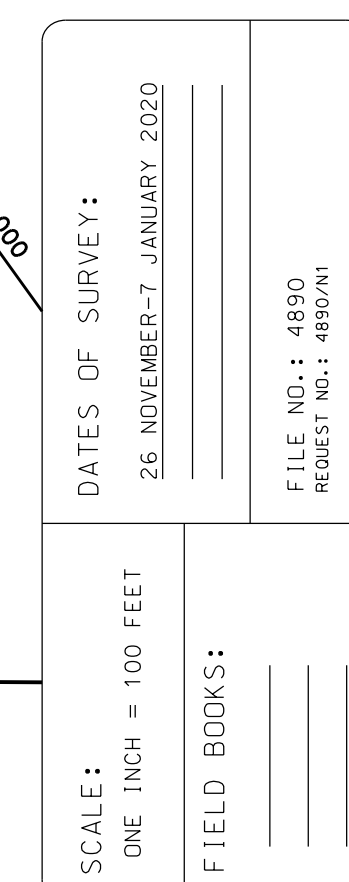
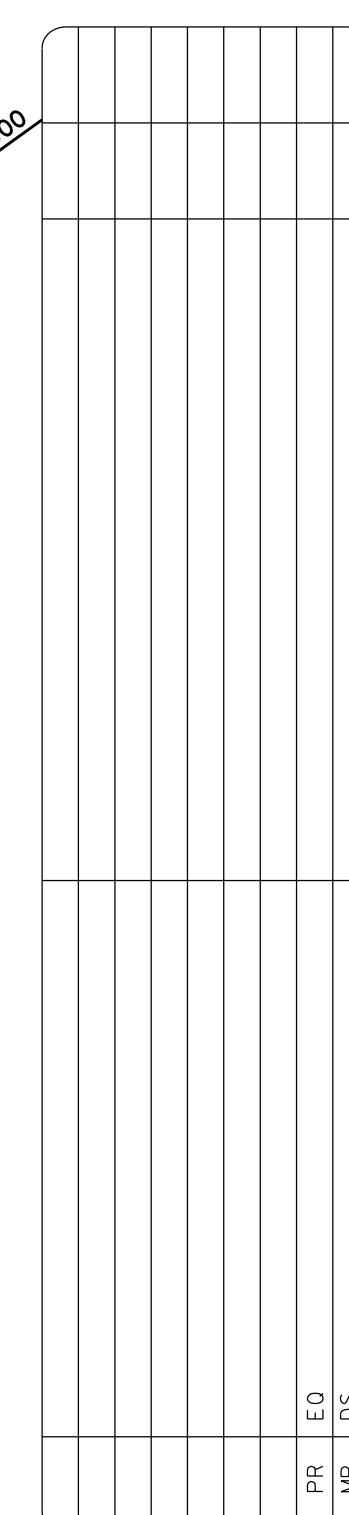
VH-103

SHEET 3 OF 11

FILE NO. 4890
REQ. NO. 4890/N1



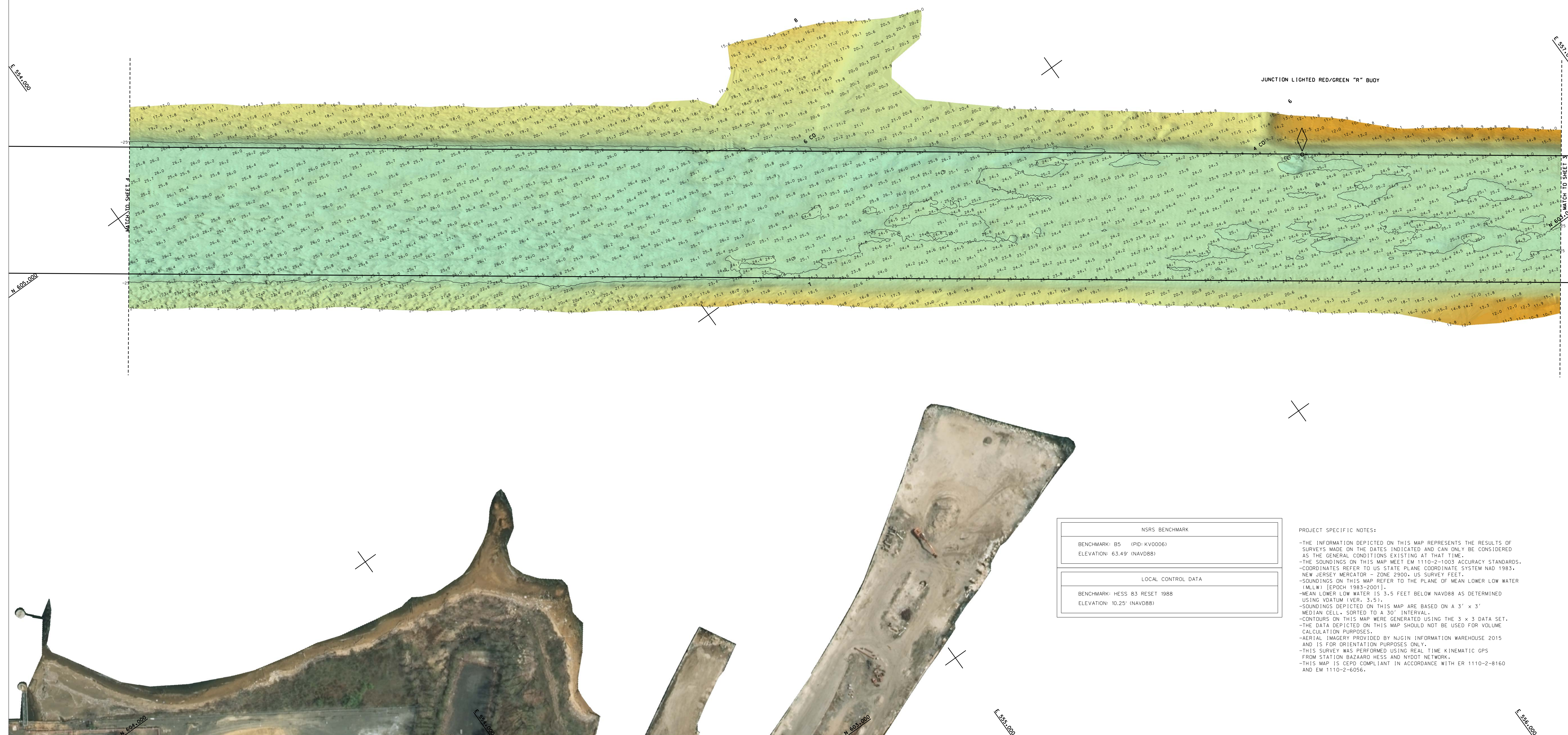
RARI TAN CUTOFF CHANNEL



VH-104

SHEET 4 OF 11

FILE NO. 4890
REQ. NO. 4890/N1





8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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SCALE: ONE INCH = 100 FEET	DATES OF SURVEY: 26 NOVEMBER - 7 JANUARY 2020 _____ _____
FIELD BOOKS: _____ _____ _____	FILE NO. : 4890 REQUEST NO. : 4890/NI

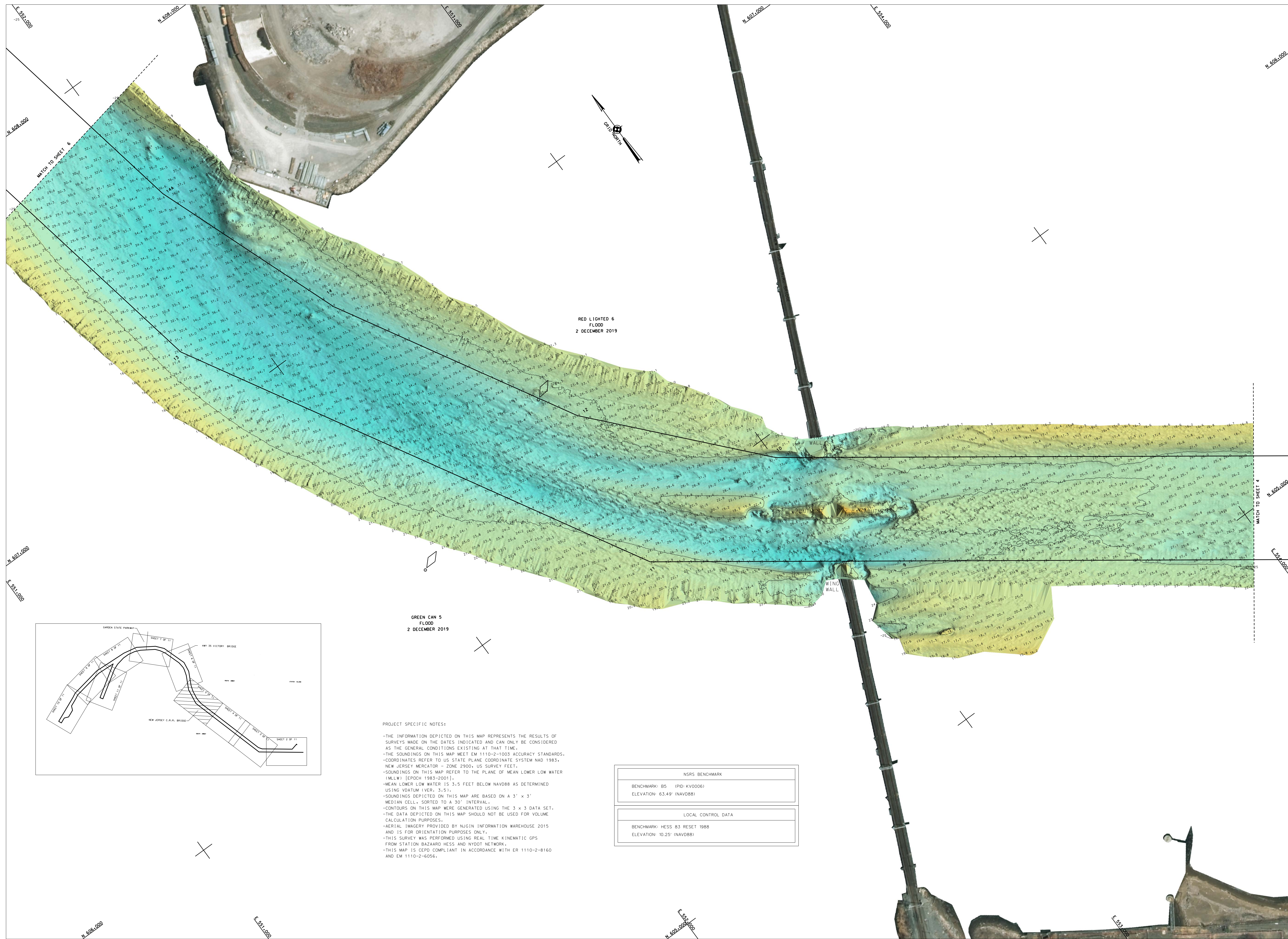
DEPARTMENT OF THE ARMY NEW YORK DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK 10278	APPROVED: J. BERTOLOTTI SUPERVISOR OF SURVEYING
	APPROVED: M. FORTE CHIEF SURVEYING SECTION
OPERATIONS DIVISION SURVEY SECTION CEMAN-OP-8	APPROVED: D. CLARKE UNIT PERFORMANCE
	APPROVED: J. MAZ SUPERVISOR OF STAFF DATE: 27 JANUARY 2020

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-105

SHEET 5 OF 11

FILE NO. 4890
REQ. NO. 4890/N1

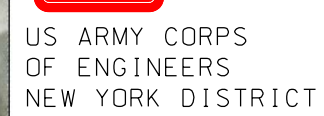


PROJECT SPECIFIC NOTES:

- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF THE SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- THE DATA WERE OBTAINED FROM THE 1983-1985 USGS 1:50,000 ACQUISITION STANDARD COORDINATES REFERENCE TO US STATE PLANE COORDINATE SYSTEM NAD 83, NEW JERSEY MERCATOR - ZONE 2000, US SURVEY FEET.
- SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) OF THE ADJACENT COAST.
- MEAN LOWER LOW WATER IS 3.5 FEET BELOW NAVD83.
- USING DATUM (VER. 3.5).
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL SIZE, 30' 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.
- SERIAL NUMBERS ASSIGNED BY NADIN INFORMATION WAREHOUSE 2015 AND IS FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION 60490 HESS AND NY007 NETWORK.
- THIS MAP IS NOT COMPLIANT IN ACCORDANCE WITH ER 11-2-8160 AND EM 1110-2-6256.

NSRS BENCHMARK	
BENCHMARK: B5	(PID: KV0006)
ELEVATION: 63.49'	(NAVD88)

LOCAL CONTROL DATA	
BENCHMARK: HESS 83	RESET 1988
ELEVATION: 10.25'	(NAVD88)

[illegible]

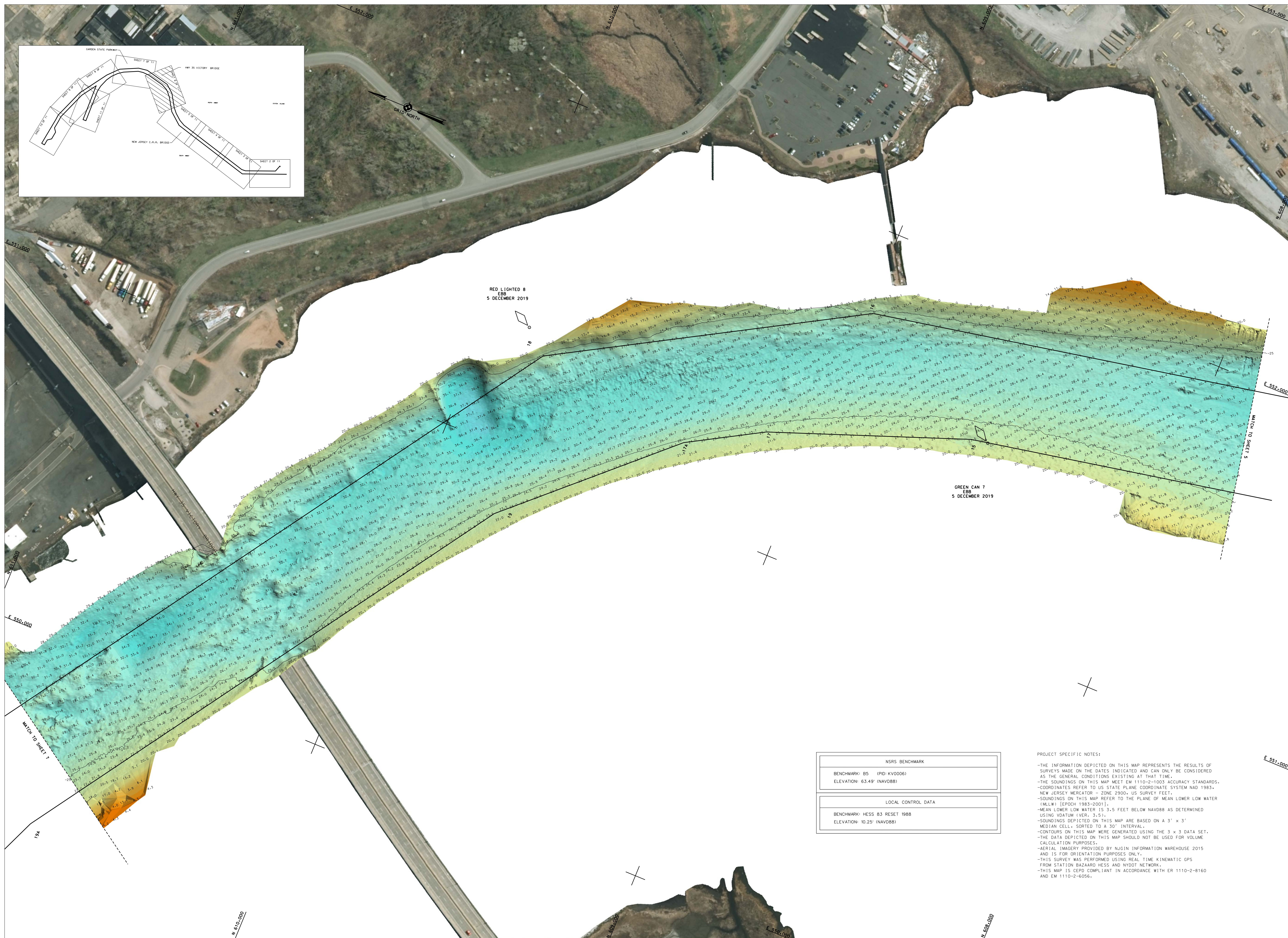
SCALE : ONE INCH = 100 FEET	DATES OF SURVEY : 26 NOVEMBER-7 JANUARY 2020
FIELD BOOKS : 	FILE NO. : 4890 REGEST. NO. : 4930/VI

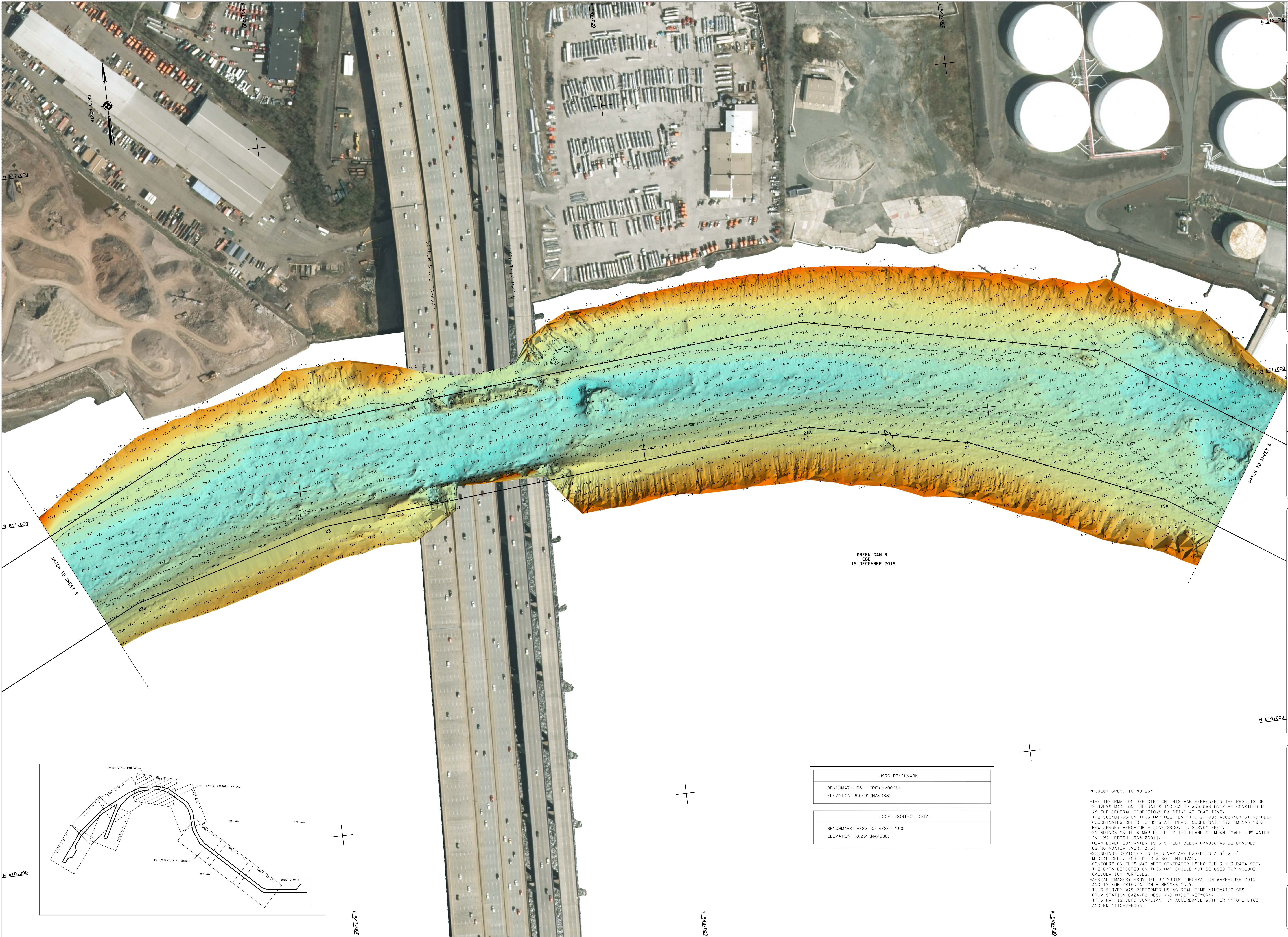
DEPARTMENT OF THE ARMY NEW YORK DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK 10278	APPROVED: M. APPEL FIELD ENGINEER
	APPROVED: M. FORTE CIVIL ENGINEING SECTION
OPERATIONS DIVISION SURVEY SECTION CEMAN-OP-8	APPROVED: D. CLARKE UNIT PERFORMANCE
	APPROVED: J. MAZÉ CHIEF OF SECTION & UNIT
	DATE: 27 JANUARY 2020

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

SHEET 6 OF 11

FILE NO. 4890
REQ. NO. 4890/N





U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATE OF SURVEY:	26 NOVEMBER-7 JANUARY 2020
SCALE:	ONE INCH = 100 FEET
FIELD BOOKS:	
FILE NO.:	4890
REQUEST NO.:	8890/1

APPROVED: J. BEETO, OTTL
APPROVED: M. EORIE
APPROVED: D. CLARKE
APPROVED: J. MRAZ

DATE: 27 JANUARY 2020

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

OPERATIONS DIVISION
NEW YORK DISTRICT
NEW YORK, NEW YORK 10278

RARITAN RIVER
NEW JERSEY

CONDITION SURVEY

VH-107

SHEET 7 OF 11

FILE NO. 4890
REQ. NO. 4891/1

NSRS BENCHMARK
BENCHMARK: B5 (PID: KV0006)
ELEVATION: 63.49' (NAVD88)

LOCAL CONTROL DATA
BENCHMARK: HESS 83 RESET 1988
ELEVATION: 10.25' (NAVD88)

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, NEW JERSEY MERCATOR - ZONE 2900, US SURVEY FEET.
- SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) (EPOCH 1985-2001).
- MEAN LOWER LOW WATER IS 3.5 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.5).
- SOUNDINGS DEPICTED ON THIS MAP ARE BASED ON A 3' x 3' MEDIAN CELL, SORTED TO A 30' 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.
- AERIAL IMAGERY PROVIDED BY NUCIN INFORMATION WAREHOUSE 2015 AND IS FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION BAZARO HESS AND NDOT NETWORK.
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

[illegible]

ONE INCH = 100 FEET	FIELD BOOKS: _____ _____ _____
26 NOVEMBER-16 DECEMBER 2019	_____ _____ FILE NO.: 4890 REQUEST NO.: 4890/NI

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNOLOGIAN

APPROVED: D. CLARKE
LAB COORDINATOR

APPROVED: J. MRAZ
DEPUTY CHIEF OF AGENCY

DATE: 27 JANUARY 2020

CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

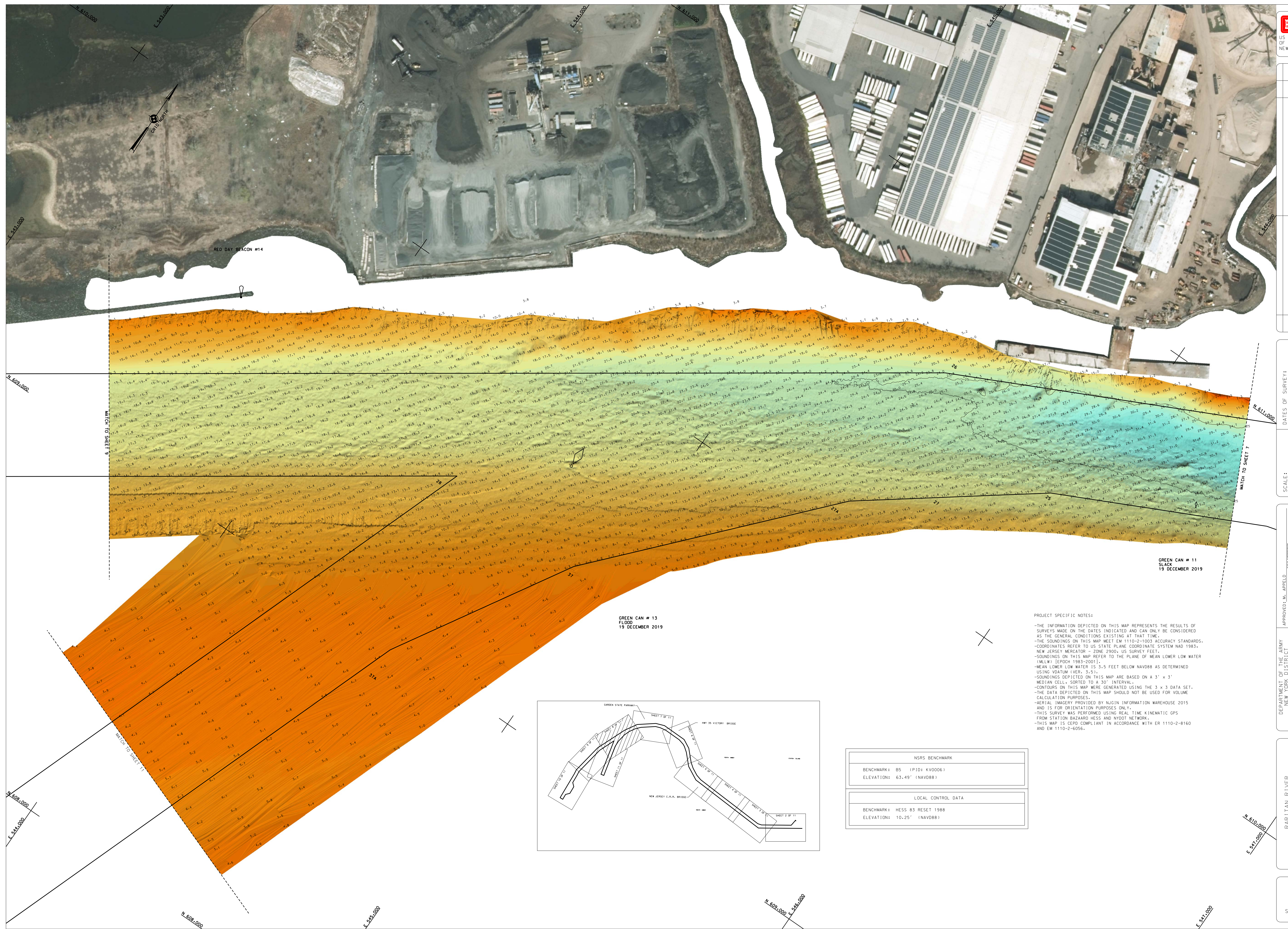
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

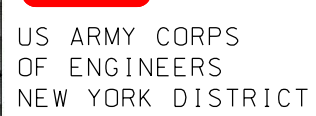
NEW JERSEY
CONDITION SURVEY

VH-108

HEET 8 OF 11

E. NO. 4890
D. NO. 4890/N1



[illegible]

26 NOVEMBER-7 JANUARY 2020

FILE NO.: 4890
REQUEST NO.: 4890/21

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: M. APPEL	FIELD CARTOGRAPHER
APPROVED: M. FORTE	

APPROVED: D. CLARKE

APPROVED: D. CLARKE

APPROVED: D. CLARKE

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

OPERATIONS DIVISION

OPERATIONS DIVISION

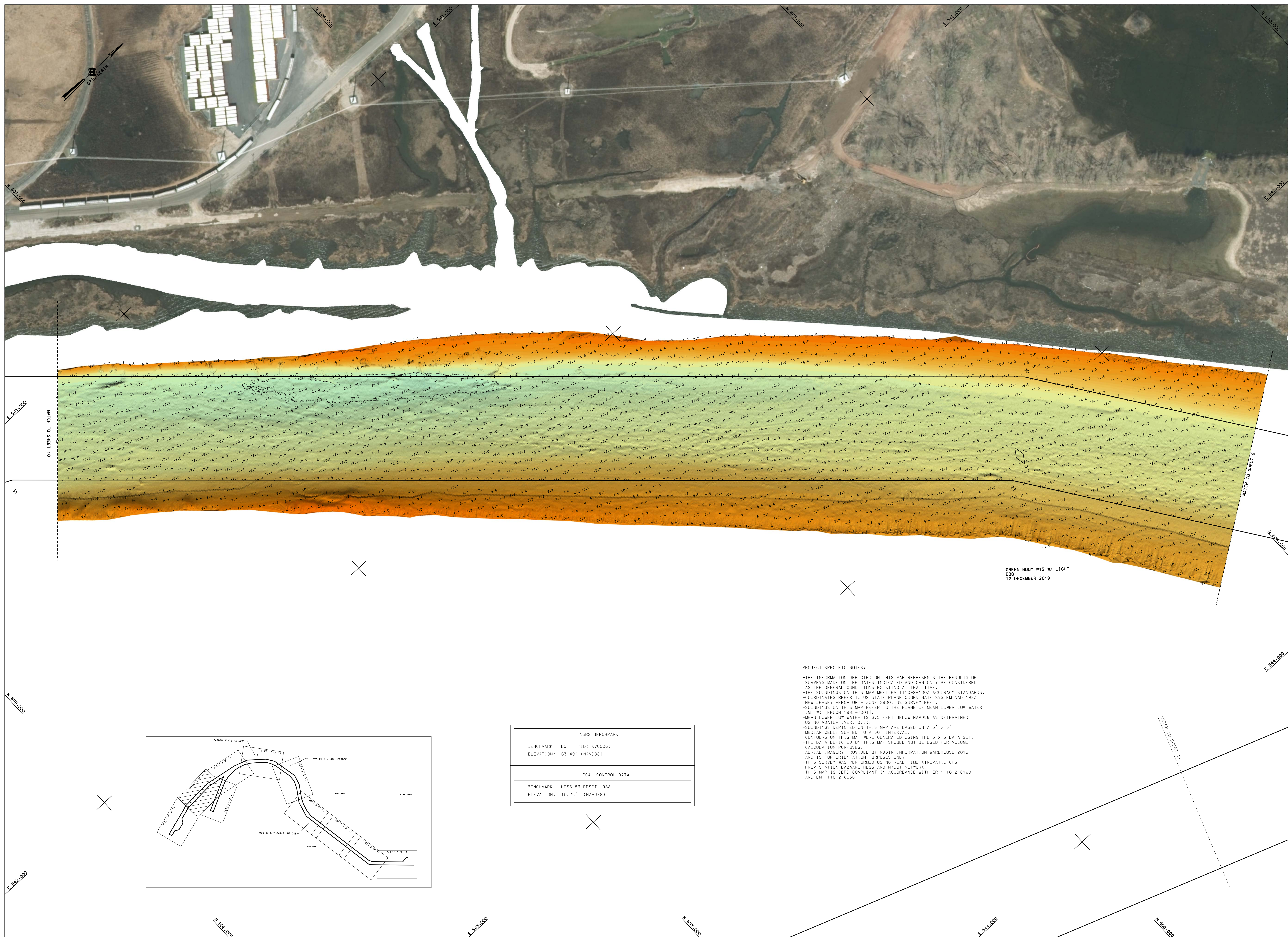
RARITAN RIVER

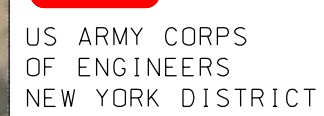
CONDITION SURVEY

VH-109

SHEET 09 OF 11

FILE NO. 4890
REQUEST NO. 4890/N1



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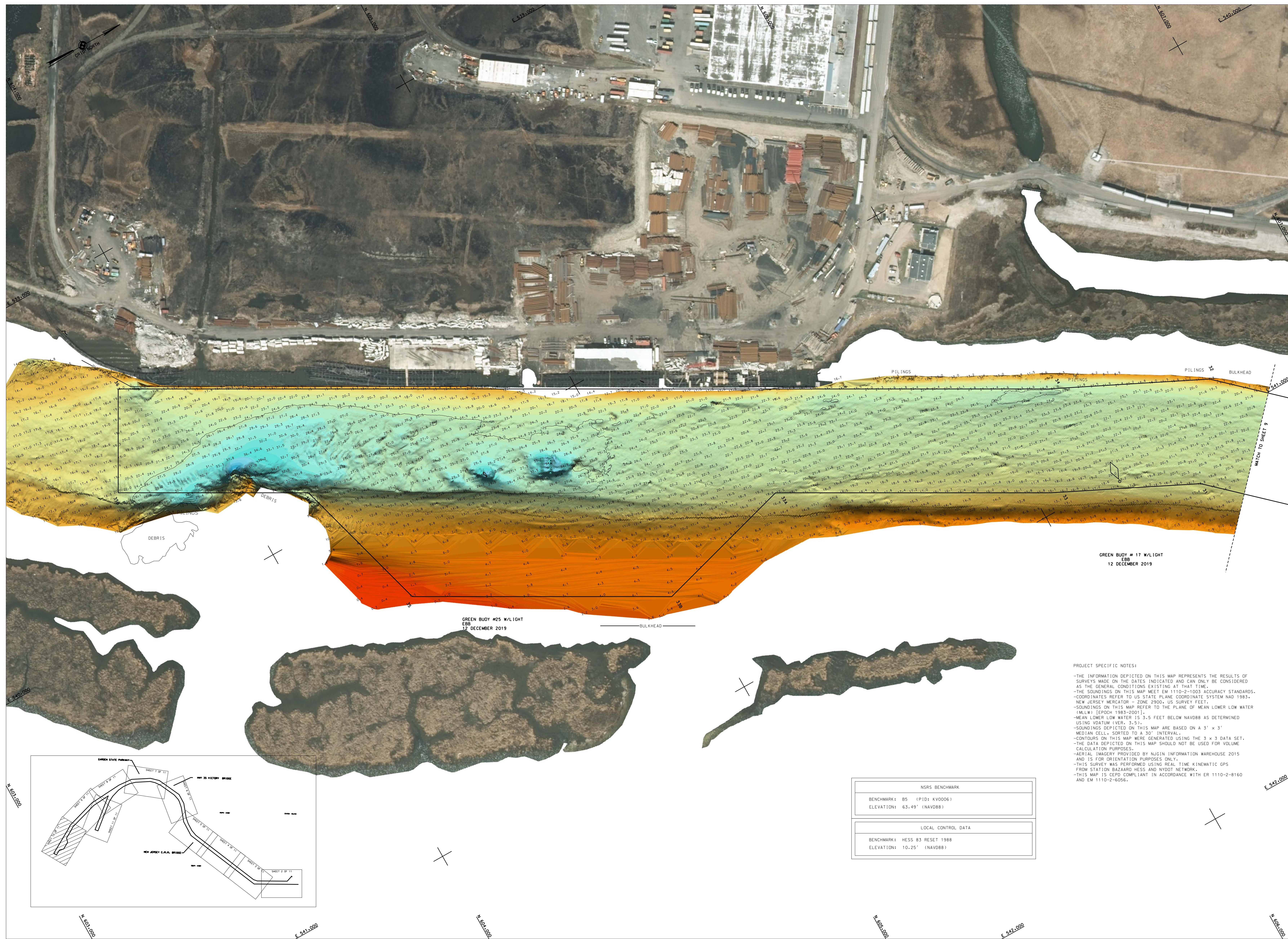
SCALE : ONE INCH = 100 FEET	DATES OF SURVEY : 26 NOVEMBER-7 JANUARY 2020 _____ _____
FIELD BOOKS : _____ _____ _____	FILE NO. : 4890 REGEST. NO. : 4930/VI

DEPARTMENT OF THE ARMY NEW YORK DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK 10278	APPROVED: M. APPELO JULY 1968
	APPROVED: M. FORTE CIVIL ENGINEERING SECTION
OPERATIONS DIVISION SURVEY SECTION CRVAN-Q-S	APPROVED: D. CLARKE LIFT COMPANIES
	APPROVED: J. MORAN NEW YORK OFFICE OF SAFETY DATE: 27 JANUARY 1970

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-110

SHEET 10 OF 11



[illegible]

26 NOVEMBER-7 JANUARY 2020

SCALE:
ONE INCH = 100 FEET

APPROVED: M. APPELO FIELD ENGINEER

APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE LABOR CATEGORIZER

APPROVED: J. MRAZ SENIOR CHIEF OF SURVEY

DATE: 27 JANUARY 2020

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

RARITAN RIVER
NEW JERSEY
CONDITION SURVEY

VH-111

SHEET 11 OF 11

FILE NO. 4890
REQ. NO. 4890/N1

