[illegible]

DATES OF SURVEY:
8-9 SEPTEMBER 2022

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:
ATLANTIC HIGHLANDS FIELD
02220908_HYDRO_NOT
02220909_HYDRO_NOT

APPROVED: D. MOORE
FIELD CARTOGRAPHER

APPROVED: R. SMITH
CIVIL ENGINEERING TECH

APPROVED: P. BHADUR
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

SEP. 22, 2002

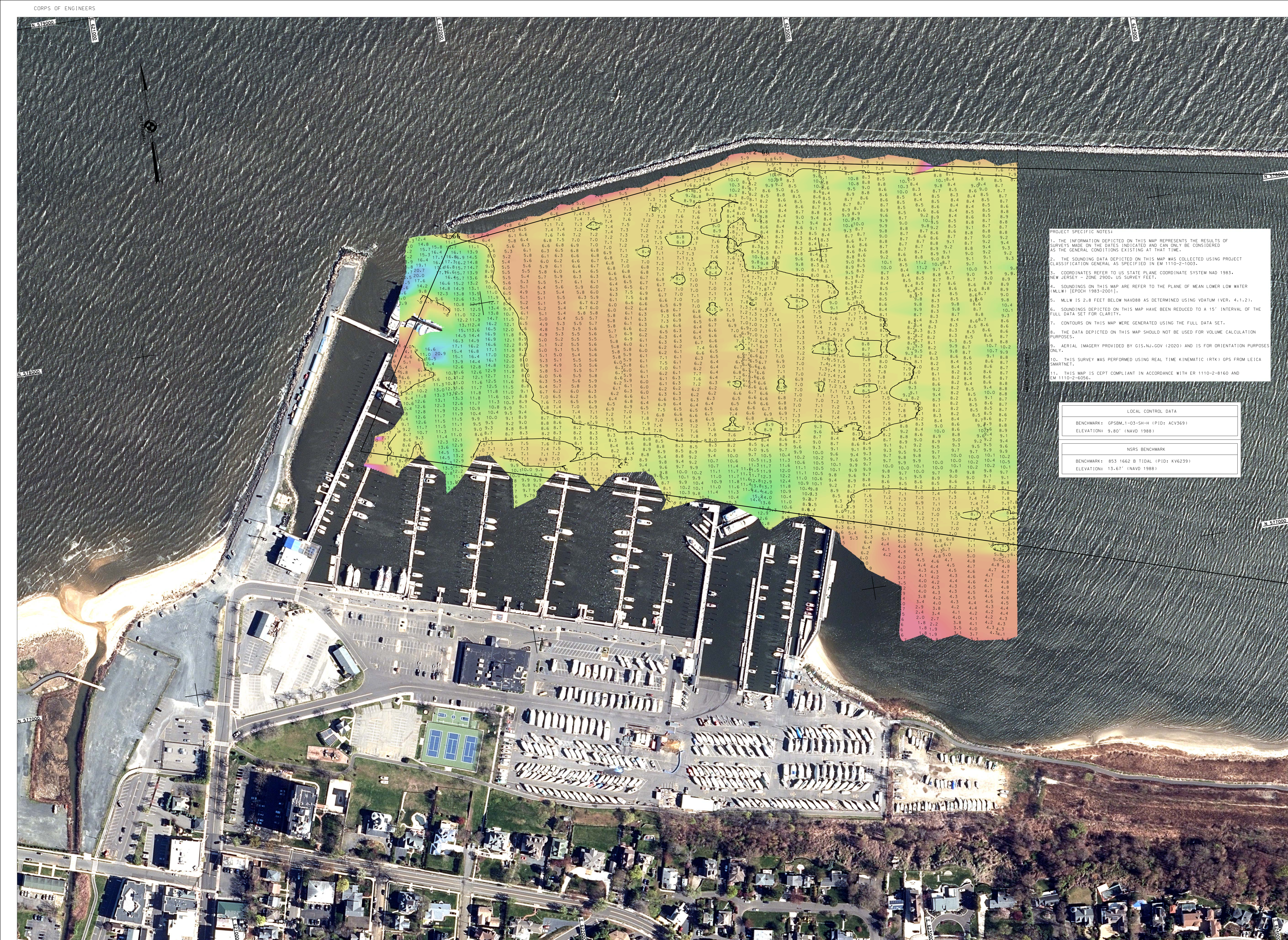
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SANDY HOOK BAY
ATLANTIC HIGHLANDS
NEW JERSEY
CONDITION SURVEY

VH-101

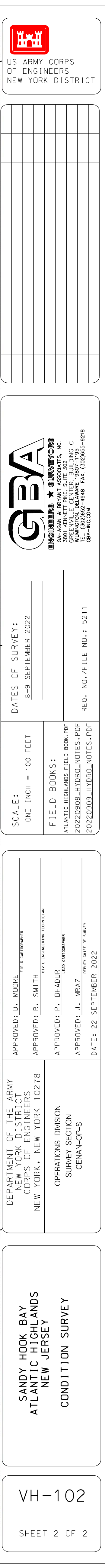
SHEET 1 OF 2



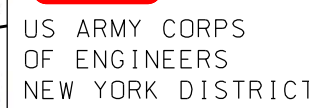
PROJECT SPECIFIC NOTES:

1. 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.
2. THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL AS SPECIFIED IN EM 1110-2-1003.
3. COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983, NEW JERSEY - ZONE 2900. US SURVEY FEET.
4. SOUNDINGS ON THIS MAP ARE REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) [EPOCH 1983-2001].
5. MLLW IS 2.8 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER, 4.1.2).
6. SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN REDUCED TO A 15' INTERVAL OF THE FULL DATA SET FOR CLARITY.
7. CONTOURS ON THIS MAP WERE GENERATED USING THE FULL DATA SET.
8. THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
9. AERIAL IMAGERY PROVIDED BY GIS.NJ.GOV (2020) AND IS FOR ORIENTATION PURPOSES ONLY.
10. THIS SURVEY WAS CONDUCTED USING REAL TIME KINEMATIC (RTK) GPS FROM LEICA SMARTNET.
11. THIS MAP IS CEPT COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

LOCAL CONTROL DATA
BENCHMARK: OPSBM-1-03-SH-H (PID: ACV369) ELEVATION: 9.80' (NAVD 1988)
NSRS BENCHMARK
BENCHMARK: 853 1662 B TIDAL (PID: KV6239) ELEVATION: 13.67' (NAVD 1988)



VH-102

[illegible]

DATES OF SURVEY:
8-9 SEPTEMBER 2022

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. MOORE
FILED: CARTERMAN
APPROVED: R. SMITH
CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR
LEAD CARTERMAN
APPROVED: J. NPAZ
SENIOR CHIEF OF SURVEY

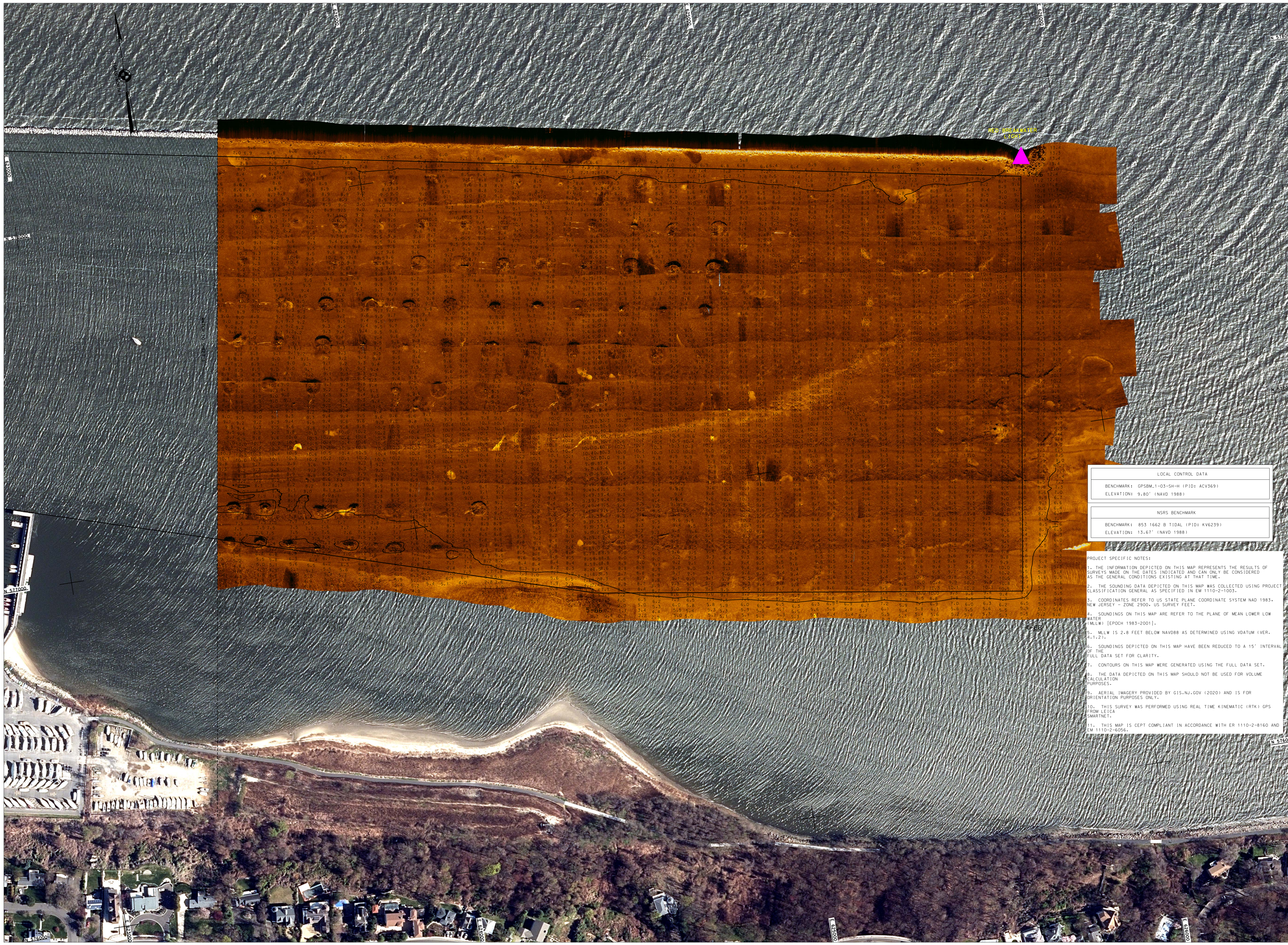
DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

SANDY HOOK BAY
ATLANTIC HIGHLANDS
NEW JERSEY
CONDITION SURVEY

VH-102

SHEET 2 OF 2



LOCAL CONTROL DATA
BENCHMARK: GPSBM-1-03-SH-H (PID: ACV369)
ELEVATION: 9.80' (NAVD 1988)

NSRS BENCHMARK
BENCHMARK: 853 1662 B TIDAL (PID: KV6239)
ELEVATION: 13.67' (NAVD 1988)

- PROJECT SPECIFIC NOTES:
1. 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.
2. THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL AS SPECIFIED IN EM 1110-2-1003.
3. COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 83, NEW JERSEY - ZONE 2900, US SURVEY FEET.
4. SOUNDINGS ON THIS MAP ARE REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) [EPOCH 1983-2001].
5. MLLW IS 2.8 FEET BELOW NAVD88 AS DETERMINED USING VDATUM EVER.
6. SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN REDUCED TO A 15' INTERVAL OF THE FULL DATA SET FOR CLARITY.
7. CONTOURS ON THIS MAP WERE GENERATED USING THE FULL DATA SET.
8. THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
9. AERIAL IMAGERY PROVIDED BY GIS.NJ.GOV (2020) AND IS FOR ORIENTATION PURPOSES ONLY.
10. THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC (RTK) OPS FROM LEICA SMARTNET.
11. THIS MAP IS CEPT COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.