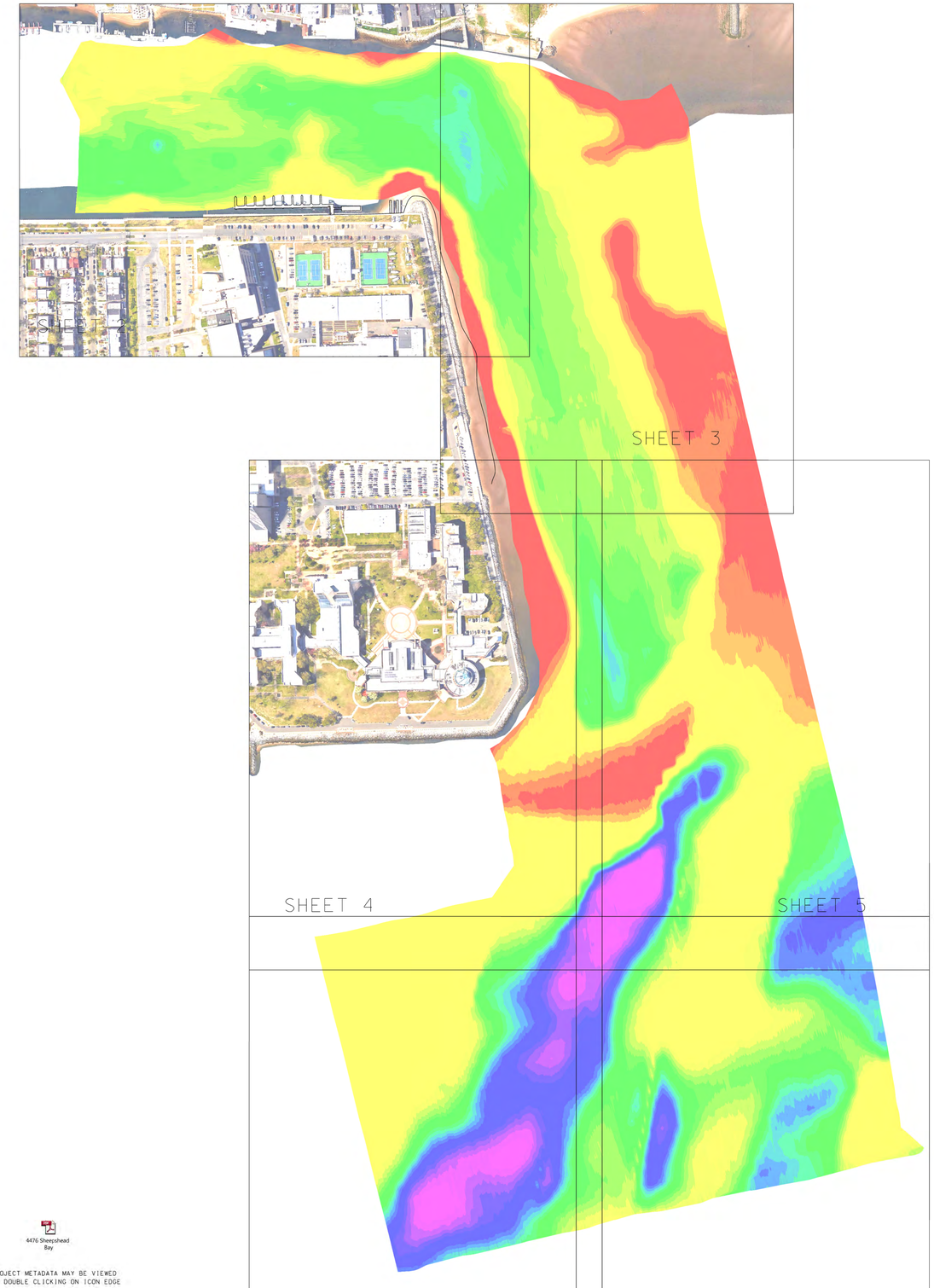
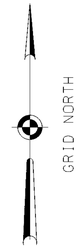




PROJECT SPECIFIC NOTES:

- 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 3.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.0).
- 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 GOOGLE EARTH 2016
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NE KING".
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

4476 Sheepshead Bay

PROJECT METADATA MAY BE VIEWED BY DOUBLE CLICKING ON ICON EDGE

NSRS BENCHMARK
BENCHMARK: H 353 (PID: KU1256)
ELEVATION: 10.63' NAVD 88

LOCAL CONTROL DATA
BENCHMARK: NE KING
ELEVATION: 9.35' NAVD 88

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

TD/JE	MP
JE	PR

DATES OF SURVEY: 11-12,27,31 MAY 2016 3 JUNE 2016

FILE NO.: 15 REQUEST NO.: 4476/N3

SCALE: 1 INCH = 200'

FIELD BOOKS: 1027

APPROVED: M. APPELD FIELD CARTOGRAPHER

APPROVED: M. FORTE PROJECT MANAGER

APPROVED: D. CLARKE LEAD CARTOGRAPHER

APPROVED: J. MRAZ DEPUTY CHIEF OF SURVEY

DATE: 8 JUNE 2016

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

OPERATIONS DIVISION SURVEY SECTION CENAN-OP-S

HYDROGRAPHIC SURVEY OF SHEEPSHEAD BAY EXTENDING INTO ROCKAWAY INLET NEW YORK

CONDITION SURVEY

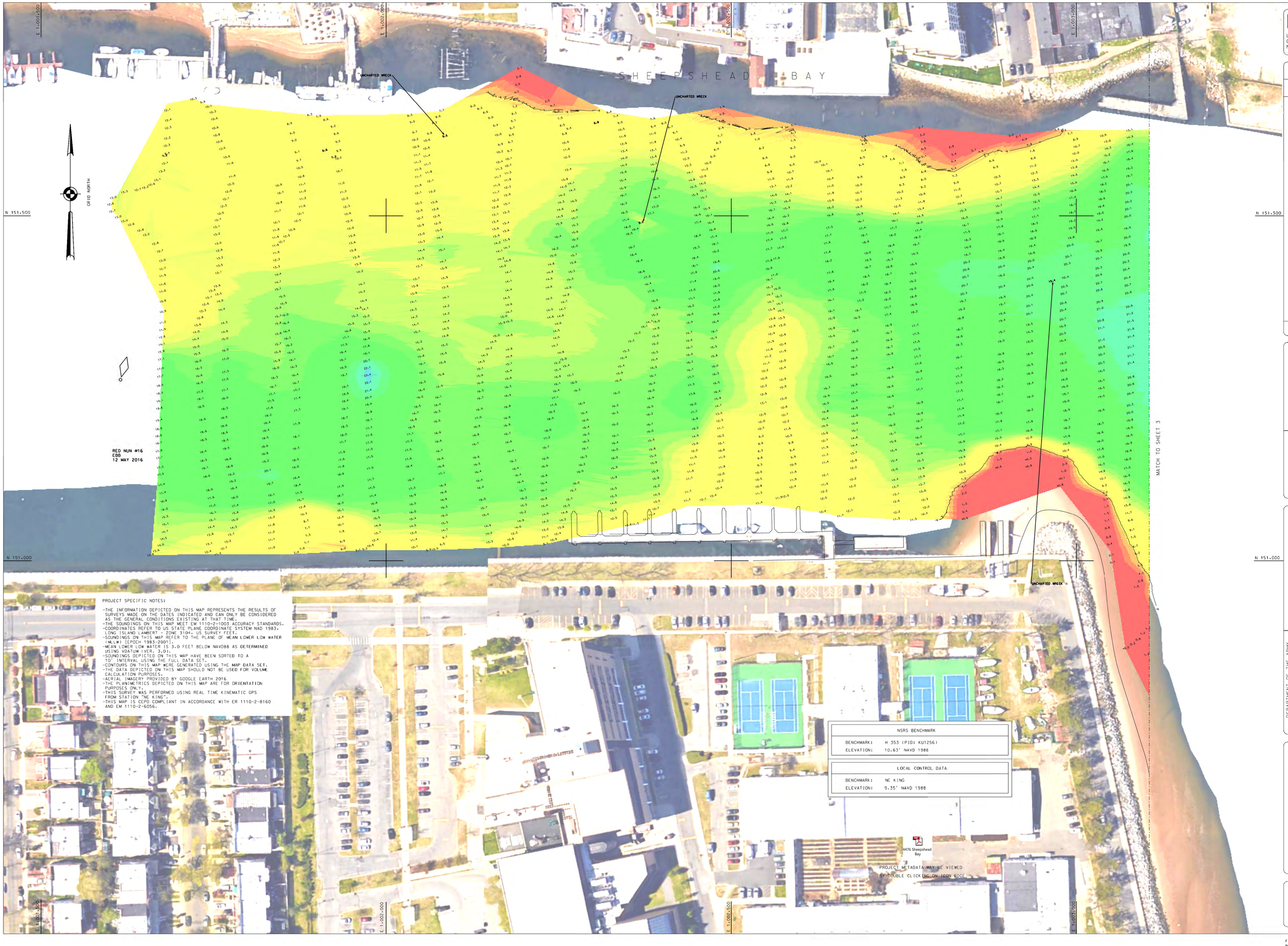
VH-101

SHEET 1 OF 7

FILE NO.:15
REQ NO.:4476/N3

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 3.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.0).
- 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 GOOGLE EARTH 2016
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NE KING".
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK	
BENCHMARK:	H 353 (PID: KU1256)
ELEVATION:	10.63' NAVD 1988

LOCAL CONTROL DATA	
BENCHMARK:	NE KING
ELEVATION:	9.35' NAVD 1988

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

TO/JE MP
JE PR

DATES OF SURVEY:
11-12,27,31 MAY 2016
3 JUNE 2016

FILE NO.: 15
REQUEST NO.:4476/N3

SCALE:
1 INCH = 50'

FIELD BOOKS:
1027

APPROVED: M. APPELD
FIELD CARTOGRAPHER

APPROVED: M. FORTE
PROJECT MANAGER

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 8 JUNE 2016

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

HYDROGRAPHIC SURVEY OF
SHEEPSHEAD BAY
EXTENDING INTO
ROCKAWAY INLET
NEW YORK
CONDITION SURVEY

VH-102

SHEET 2 OF 7

FILE NO.:15
REQ NO.:4476/N3

CORPS OF ENGINEERS

U. S. ARMY

NSRS BENCHMARK	
BENCHMARK:	H 353 (PID: KU1256)
ELEVATION:	10.63' NAVD 1988

LOCAL CONTROL DATA	
BENCHMARK:	NE KING
ELEVATION:	9.35' NAVD 1988

14476 Sheepshead Bay

PROJECT METADATA MAY BE VIEWED BY DOUBLE CLICKING ON ICON EDGE

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 (M.L.W.) [EPOCH 1983-2001].
-MEAN LOWER LOW WATER IS 3.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.01).
-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 GOOGLE EARTH 2016
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NE KING".
-THIS MAP IS CEPO COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

GRID NORTH

SHEEPSHEAD BAY

N 151,500 | N 151,000 | N 150,500

E 1,004,000 | E 1,003,500

MATCH TO SHEET 2

MATCH TO SHEET 4

MATCH TO SHEET 5

RED LIGHT #12
EBB
12 MAY 2016

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
11-12,27-31 MAY 2016
3 JUNE 2016

FILE NO.: 15
REQUEST NO.: 14476/N3

SCALE:
1 INCH = 50'

FIELD BOOKS:
1027

APPROVED: _____
M. ARTESI
CHIEF, OPERATIONS DIVISION

APPROVED: _____
M. FORTE
PROJECT MANAGER

APPROVED: _____
D. CLARKE
CHIEF, CARTOGRAPHER

APPROVED: _____
J. MOSLEY, CHIEF OF SURVEY

DATE: 8 JUNE 2016

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

OPERATIONS DIVISION
SURVEY BRANCH
CENAN-OP-S

HYDROGRAPHIC SURVEY OF SHEEPSHEAD BAY EXTENDING INTO ROCKAWAY INLET NEW YORK

CONDITION SURVEY

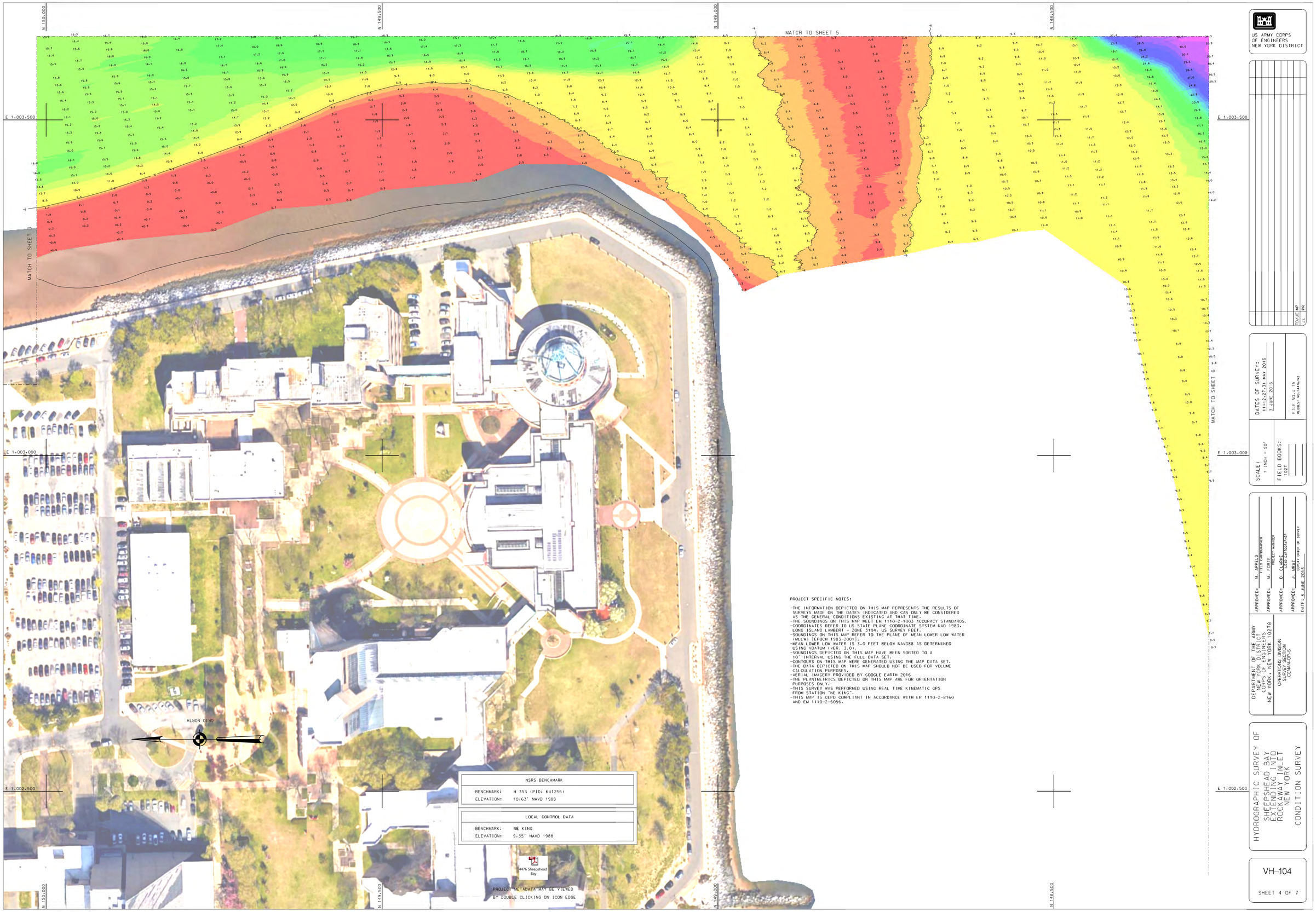
VH-103

SHEET 3 OF 7

FILE NO.: 15
REQ NO.: 14476/N3

CORPS OF ENGINEERS

U. S. ARMY



NSRS BENCHMARK	
BENCHMARK:	H 353 (PID: KU1256)
ELEVATION:	10.63' NAVD 1988

LOCAL CONTROL DATA	
BENCHMARK:	NE KING
ELEVATION:	9.35' 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 3.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.0).
- 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 GOOGLE EARTH 2016
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NE KING".
- 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

TD/JE MP
JE PR

DATES OF SURVEY:
11-12,27,31 MAY 2016
3 JUNE 2016

FILE NO.: 15
REQUEST NO.:4476/N3

SCALE:
1 INCH = 50'

FIELD BOOKS:
1027

APPROVED: M. APPELO
FIELD CARTOGRAPHER

APPROVED: M. FORTE
PROJECT MANAGER

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 8 JUNE 2016

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

HYDROGRAPHIC SURVEY OF SHEEPSHEAD BAY EXTENDING INTO ROCKAWAY INLET NEW YORK

CONDITION SURVEY

VH-104

SHEET 4 OF 7

FILE NO.:15
REQ NO.:4476/N3

CORPS OF ENGINEERS

U. S. ARMY

NSRS BENCHMARK	
BENCHMARK:	H 353 (PID: KU1256)
ELEVATION:	10.63' NAVD 1988

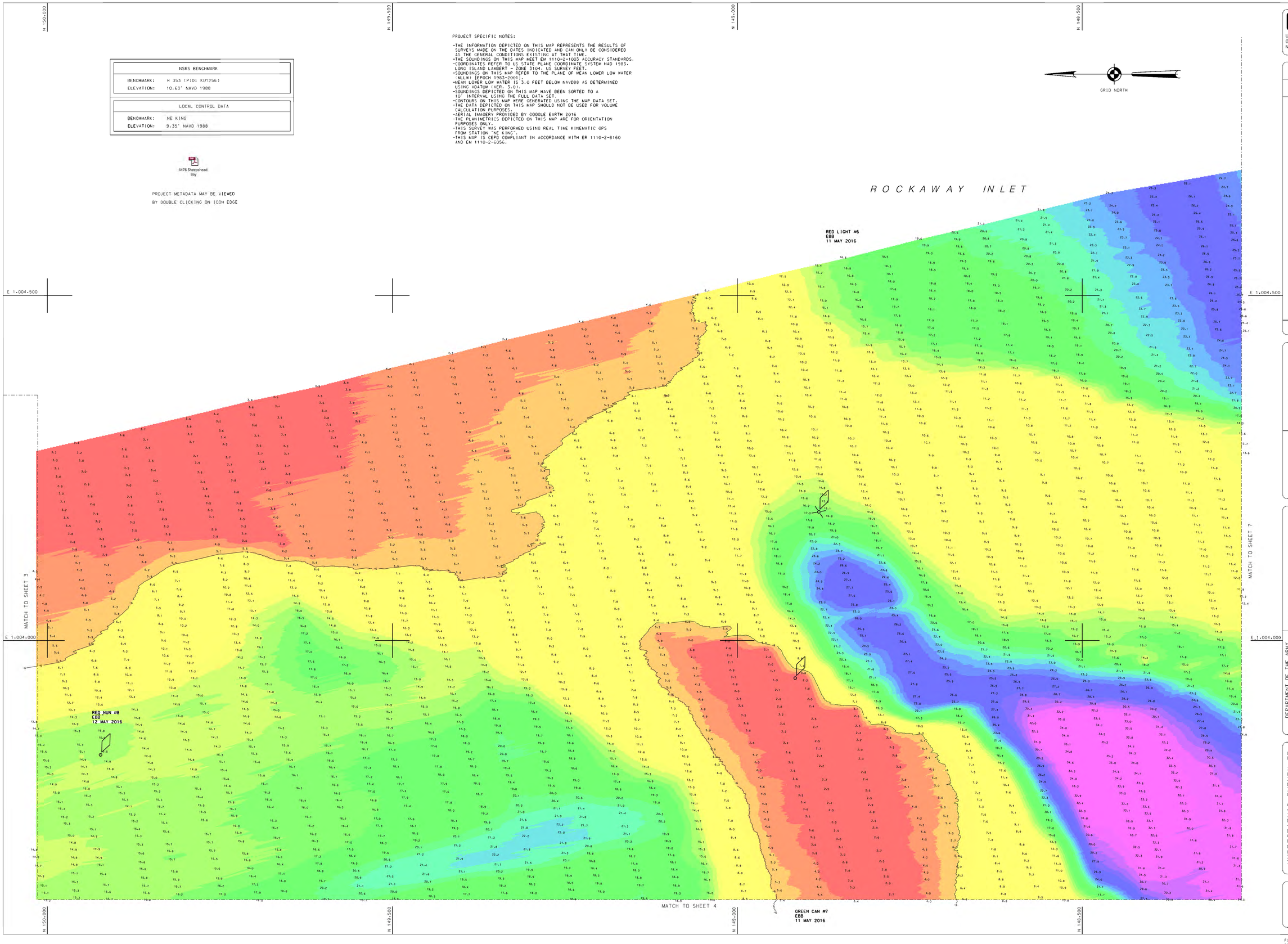
LOCAL CONTROL DATA	
BENCHMARK:	NE KING
ELEVATION:	9.35' NAVD 1988

4476 Sheepshead Bay

PROJECT METADATA MAY BE VIEWED BY DOUBLE CLICKING ON ICON EDGE

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 3.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.0).
- 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 GOOGLE EARTH 2016
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NE KING".
- 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

TO/JE	MP
JE	PR

DATES OF SURVEY: 11-12,27,31 MAY 2016 3 JUNE 2016

FILE NO.: 15 REQUEST NO.: 4476/N3

SCALE: 1 INCH = 50'

FIELD BOOKS: 1027

APPROVED: M. APPELD FIELD CARTOGRAPHER

APPROVED: M. FORTE PROJECT MANAGER

APPROVED: D. CLARKE LEAD CARTOGRAPHER

APPROVED: J. MRAZ DEPUTY CHIEF OF SURVEY

DATE: 8 JUNE 2016

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

OPERATIONS DIVISION SURVEY SECTION CENAN-OP-S

HYDROGRAPHIC SURVEY OF SHEEPSHEAD BAY EXTENDING INTO ROCKAWAY INLET NEW YORK

CONDITION SURVEY

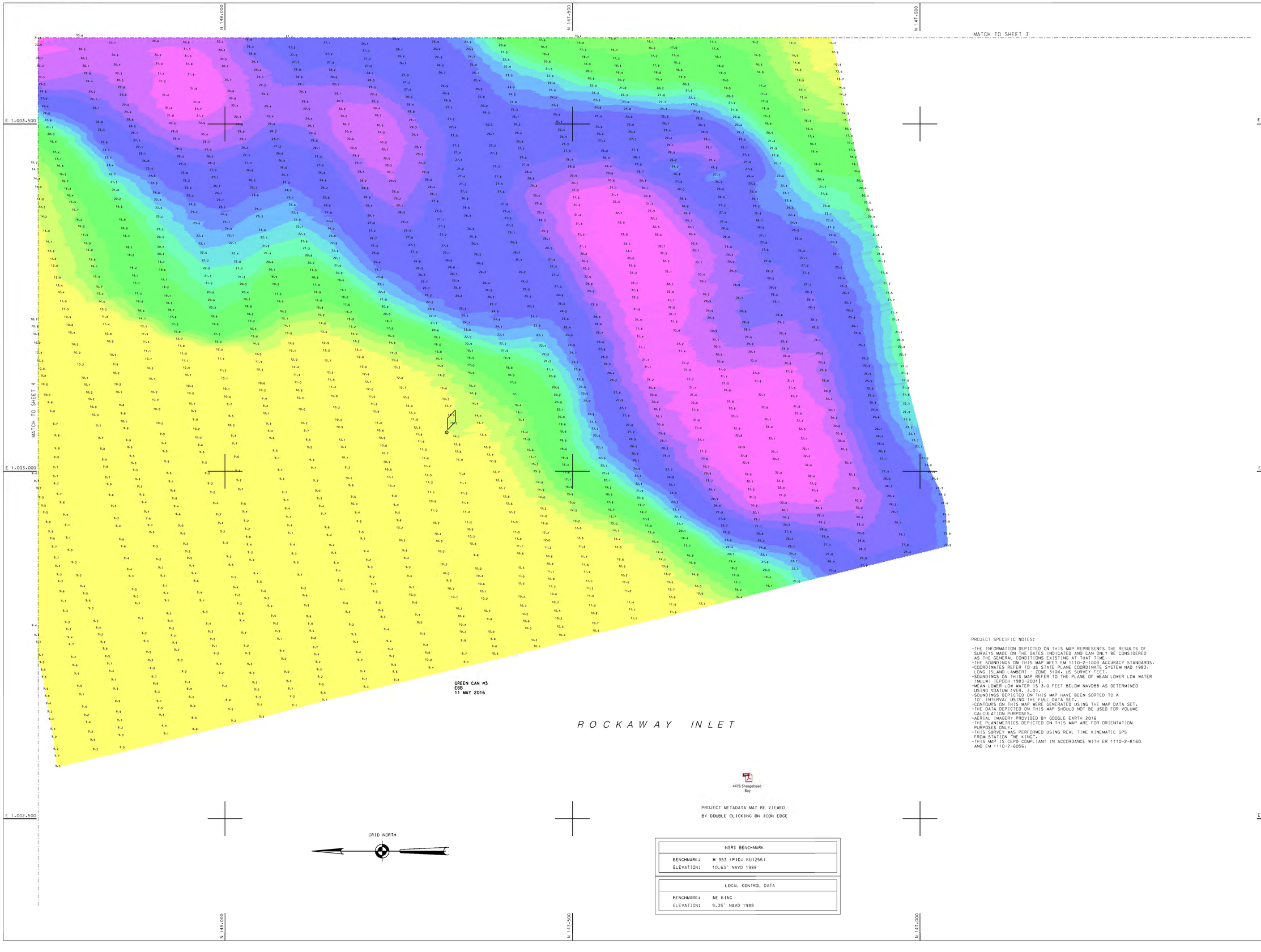
VH-105

SHEET 5 OF 7

FILE NO.:15
REQ NO.:4476/N3

CORPS OF ENGINEERS

U. S. ARMY



PROJECT METADATA MAY BE VIEWED
BY DOUBLE CLICKING ON ICON EDGE

NSRS BENCHMARK	
BENCHMARK:	H 353 (PID: KU1256)
ELEVATION:	10.63' NAVD 1988

LOCAL CONTROL DATA	
BENCHMARK:	NE KING
ELEVATION:	9.35' 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 3.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.0).
- 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 GOOGLE EARTH 2016
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NE KING".
- 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

TO/JE	MP
JE	PR

DATES OF SURVEY:
11-12,27-31 MAY 2016
3 JUNE 2016

FILE NO.: 15
REQUEST NO.:4476/N3

SCALE:
1 INCH = 50'

FIELD BOOKS:
1027

APPROVED: M. APPELD
FIELD CARTOGRAPHER

APPROVED: M. FORTE
PROJECT MANAGER

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 8 JUNE 2016

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

HYDROGRAPHIC SURVEY OF
SHEEPSHEAD BAY
EXTENDING INTO
ROCKAWAY INLET
NEW YORK
CONDITION SURVEY

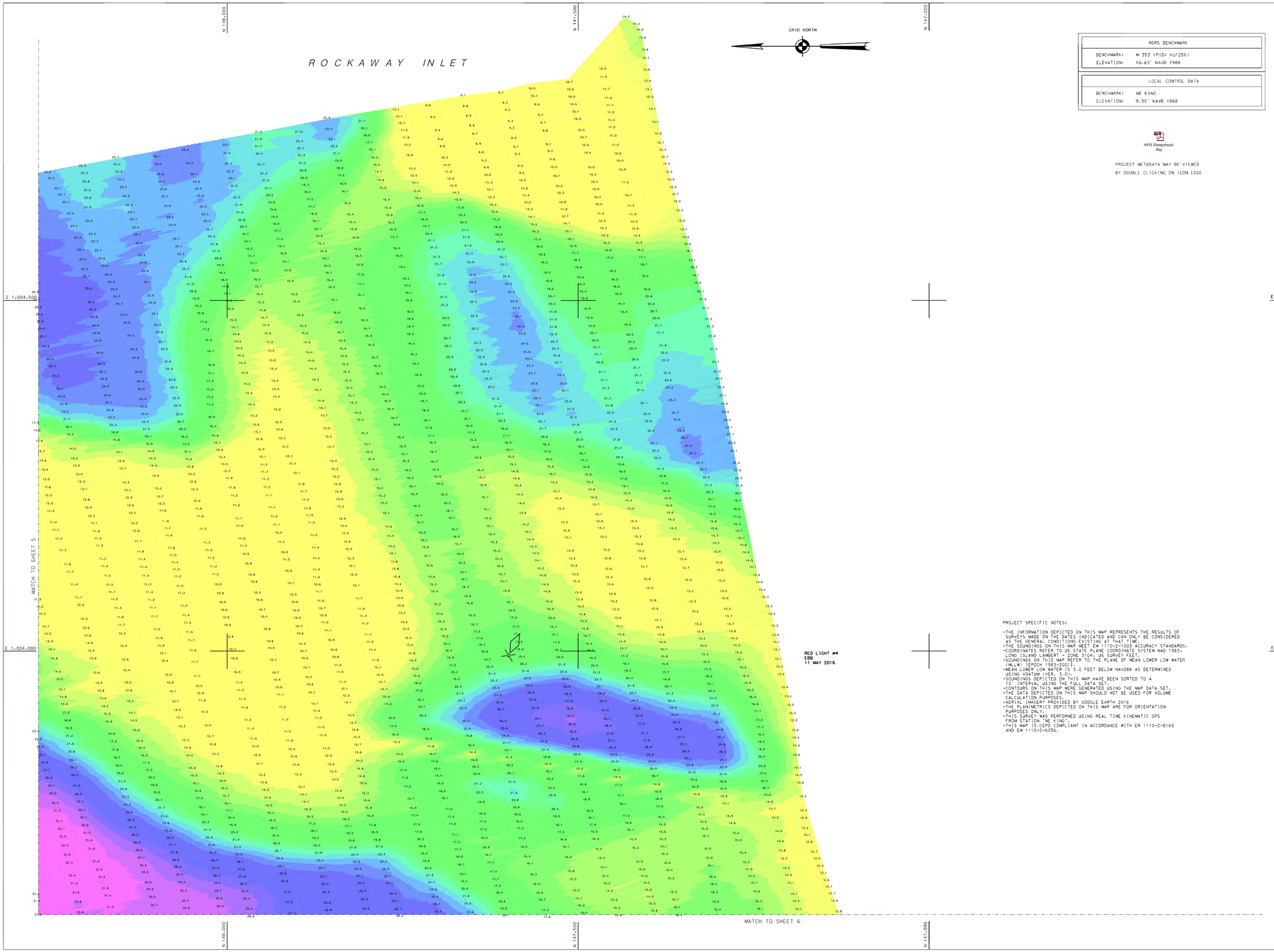
VH-106

SHEET 6 OF 7

FILE NO.:15
REQ NO.:4476/N3

CORPS OF ENGINEERS

U. S. ARMY



NSRS BENCHMARK	
BENCHMARK:	M 353 (PID: KU1256)
ELEVATION:	10.63' NAVD 1988

LOCAL CONTROL DATA	
BENCHMARK:	NE KING
ELEVATION:	9.35' NAVD 1988

4476 Sheepshead Bay

PROJECT METADATA MAY BE VIEWED BY DOUBLE CLICKING ON ICON EDGE

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 3.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.0).
- 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 GOOGLE EARTH 2016
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NE KING".
- 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

ID/JE MP
JE PR

DATES OF SURVEY:
11-12,27,31 MAY 2016
3 JUNE 2016

FILE NO.: 15
REQUEST NO.:4476/N3

SCALE:
1 INCH = 50'

FIELD BOOKS:
1027

APPROVED: M. APPELD
FIELD CARTOGRAPHER

APPROVED: M. FORTE
PROJECT MANAGER

APPROVED: D. CLARKE
LEAD CARTOGRAPHER

APPROVED: J. MRAZ
DEPUTY CHIEF OF SURVEY

DATE: 8 JUNE 2016

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

HYDROGRAPHIC SURVEY OF
SHEEPSHEAD BAY
EXTENDING INTO
ROCKAWAY INLET
NEW YORK
CONDITION SURVEY

VH-107

SHEET 7 OF 7

FILE NO.:15
REQ NO.:4476/N3