U. S. ARMY

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ESD PR

MHS MAP

SCALE:
ONE INCH = 50 FEET

DATES OF SURVEY:
16-17, 21-22 MAY 2013

FIELD BOOKS:
1008 PG
1009 PG
RECORDS NO. 3943ND

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

APPROVED: P.KEANS
CHIEF, ENGINEERING TECHNICIAN

APPROVED: M.FORTE
CHIEF, CONSTRUCTION

APPROVED: D.CLARKE
CHIEF, OPERATIONS DIVISION

APPROVED: J. MRAZ/F. POSTILIONE
CHIEF, SURVEY SECTION

DATE: 11 JUNE 2013

WESTCHESTER CREEK
NEW YORK
CONDITION SURVEY

VH-101

SHEET 1 OF 8

64
3993

PROJECT SPECIFIC NOTES:

- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS PERFORMED UNDER THE GENERAL CONDITIONS LISTED BELOW. ANY USE OF THIS MAP SHALL BE CONSIDERED AS THE GENERAL CONCURRENCE WITH THESE CONDITIONS.
- THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL AS SPECIFIED IN EM 1110-2-1003.
- SOUNDINGS ON THIS MAP ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM (NAD 1983, LONG ISLAND ZONE) U.S. SURVEY FEET.
- SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) DATUM (NAVD 88).
- MEAN HIGH WATER (MHW) IS 4.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.2).

NOAA BENCHMARK

BENCHMARK: 8518750
ELEVATION: 5.150 MLLW

NOS BENCHMARK

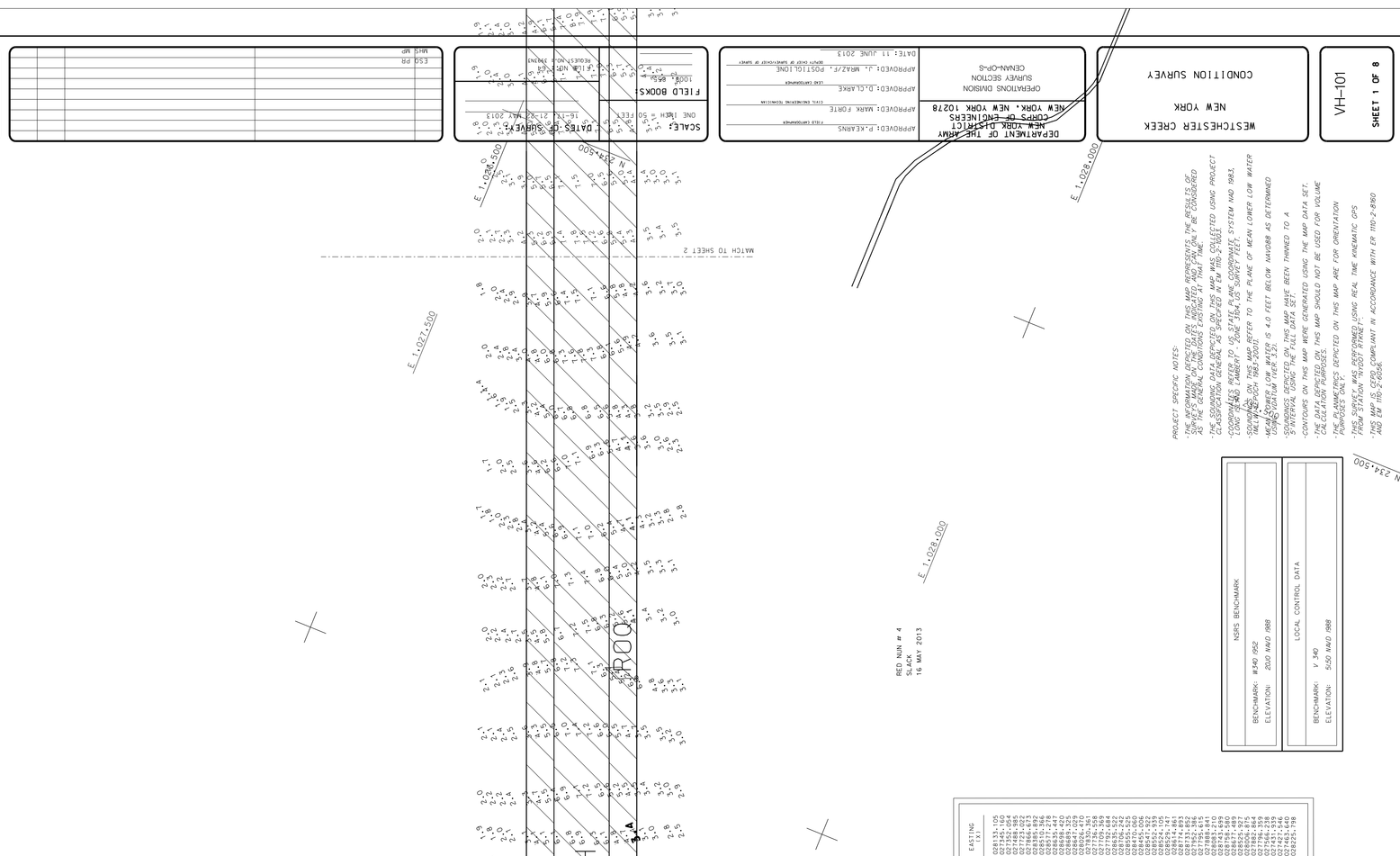
BENCHMARK: M340 052
ELEVATION: 2.200 NAVD 1988

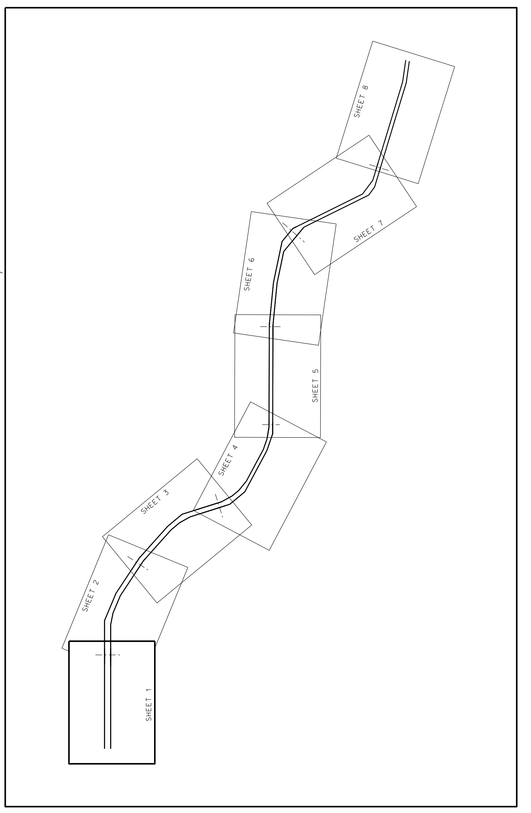
LOCAL CONTROL DATA

BENCHMARK: V 340
ELEVATION: 6.450 NAVD 1988

- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN THINNED TO A MINIMUM DISTANCE OF 5 FEET BETWEEN POINTS.
- 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NJDOT RTKNET".
- THIS MAP IS CERTIFIED COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-1003.

U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)
1	232957.508	1028133.105
2	233187.555	1027952.660
3	233387.555	1027752.054
4A	233587.555	1027552.686
4B	233715.092	1027423.022
5	233844.631	1027293.633
5-5	233944.931	1027193.892
6	234144.931	1026993.466
7	234344.931	1026793.276
8	234543.632	1026593.447
9	234463.632	1026593.447
10	234582.490	1026474.590
11	238836.634	1026847.025
12	241582.490	1026474.590
13	241981.339	1027792.684
14	242180.763	1027792.684
15	242379.289	1028006.242
16	242579.289	1028206.555
17	242213.701	1028470.060
18	242413.701	1028470.060
19	245433.335	1028647.922
20	245633.335	1028847.922
21	244357.141	1028824.705
22	244557.141	1028624.705
23	244678.830	1028614.861
24	244878.830	1028414.861
25	242949.686	1028733.852
26	243149.686	1028533.852
27	243316.848	1028748.689
28	243516.848	1028548.689
29	243709.060	1028677.489
30	243909.060	1028477.489
31-68	234997.075	1028006.875
32-68	235197.075	1027806.875
8-68	236652.568	1027796.359
9-68	236852.568	1027596.359
10-68	235378.864	1027431.939
11	235578.864	1027231.939
12	234877.981	1027461.640
13	235095.760	1027625.798





CORPS OF ENGINEERS

U. S. ARMY

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

WESTCHESTER CREEK
NEW YORK
CONDITION SURVEY

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

OPERATIONS DIVISION
SURVEY BRANCH
CENAN-OPS

APPROVED: P.KEANS
APPROVED: M.CLARKE
APPROVED: D.CLARKE
APPROVED: J. MRAZ/F. POSTILIONE
DATE: 11 JUNE 2013

VH-102

SHEET 2 OF 8

FIELD BOOKS:
DATES OF SURVEY:
SCALE:
ONE INCH = 50 FEET

RIPRAP
ROCKS / PILINGS
STORAGE
POOL
PLAYGROUND
MATCH TO SHEET 3
MATCH TO SHEET 1
REACH A
REACH B
GREEN CAN # 5
FLOOD
16 MAY 2013
RED NUN # 6
FLOOD
16 MAY 2013
RED NUN # 8
SLACK
16 MAY 2013
MHW 8.07'
MLW 0.00'
N 236.000
N 235.500
N 235.000
N 234.500
E 1,027,000
E 1,027,500
E 1,028,000

PROJECT SPECIFIC NOTES:
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEY AND ANALYSIS PERFORMED BY THE CORPS OF ENGINEERS. THIS MAP SHOULD BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT SPECIFIC SURVEY CONTROL AS SHOWN ON THIS MAP.
- 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) AS DETERMINED BY NOAA.
- MEAN LOWER LOW WATER IS 4.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER 3.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN THINNED TO A MAXIMUM OF ONE SOUNDING PER SQUARE FOOT.
- CONTOURS ON THIS MAP WERE GENERATED USING THE MAP DATA SET. CALCULATION PURPOSES.
- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION 'NJDOT NJDOT RTKNET'.
- THIS MAP IS CERTIFIED COMPLIANT IN ACCORDANCE WITH EM 1110-2-1460 AND EM 1110-2-1003.

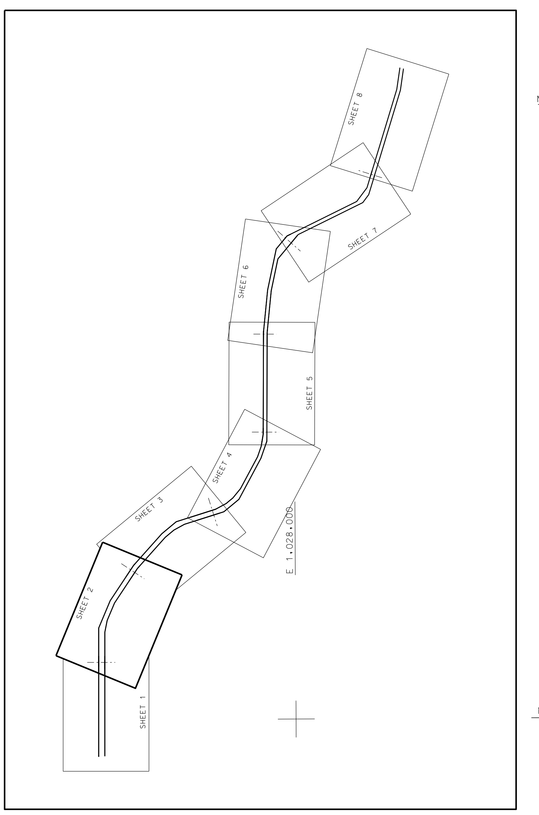
NOAA BENCHMARK

BENCHMARK: W340 952
ELEVATION: 2000 NAVD 1988

LOCAL CONTROL DATA

BENCHMARK: V 340
ELEVATION: 5.50 NAVD 1988

U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)
1	232957.598	1028135.105
2	234284.665	1027736.600
3	235387.055	1027352.954
4	236153.965	1027053.633
4B	236615.052	1027123.022
4-4S	237414.921	1027144.373
14-5	237414.921	1026385.892
5	237690.778	1026385.892
15	237690.778	1026957.218
16	238463.832	1026957.218
17	238463.832	1026869.420
18	238816.634	1026869.420
19A	239199.869	1026691.205
20	241056.490	1026926.410
21	241068.674	1027736.568
22	241068.674	1027752.568
32	241381.373	1027752.484
33	241399.869	1027752.484
34	243199.869	1028706.242
35	243213.701	1028706.242
36	245213.701	1028470.060
37	245953.335	1028547.322
38	245953.335	1028547.322
39	245953.335	1028524.105
40	245357.141	1028524.105
41	244816.830	1028614.461
42	244816.830	1028614.461
43	242949.686	1028715.852
44	242949.686	1028715.852
25	241579.271	1027752.586
26	241579.271	1027752.586
27	240402.195	1027888.241
28	240402.195	1027888.241
29	238145.868	1028743.689
30	238145.868	1028743.689
31	237708.060	1028867.489
31-1	237708.060	1028867.489
31-2	236997.075	1028826.875
31-3	236997.075	1028826.875
8-4B	236682.568	1027756.159
8-4S	236682.568	1027756.159
10-6B	235378.964	1027431.959
10-6S	235378.964	1027431.959
12	234877.991	1027463.640
13	232959.180	1028225.198



CORPS OF ENGINEERS

64
3993

WESTCHESTER CREEK
NEW YORK
CONDITION SURVEY

SHEET 3 OF 8
VH-103

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

OPERATIONS DIVISION
SURVEY BRANCH

APPROVED: _____ CHIEF, SURVEY BRANCH
APPROVED: _____ CHIEF, OPERATIONS DIVISION
APPROVED: _____ CHIEF, ENGINEERING DIVISION

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
1308 x 352

DATES OF SURVEY:
16-17, 21-22 MAY 2013

FILE NO.: 64
PROJECT NO.: 3993

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

U. S. ARMY

CORPS OF ENGINEERS

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.
-COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983, CLASSIFICATION GENERAL ✱ SPECIFIED IN EM 1110-2-1003.
-SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) EPOCH 1983-2001).
-MEAN LOWER LOW WATER IS 4.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 2.3).
-CONTOURS ON THIS MAP WERE GENERATED USING THE MAP DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR DETAILED CALCULATION PURPOSES.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION 'NYDOT RIVNET'.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

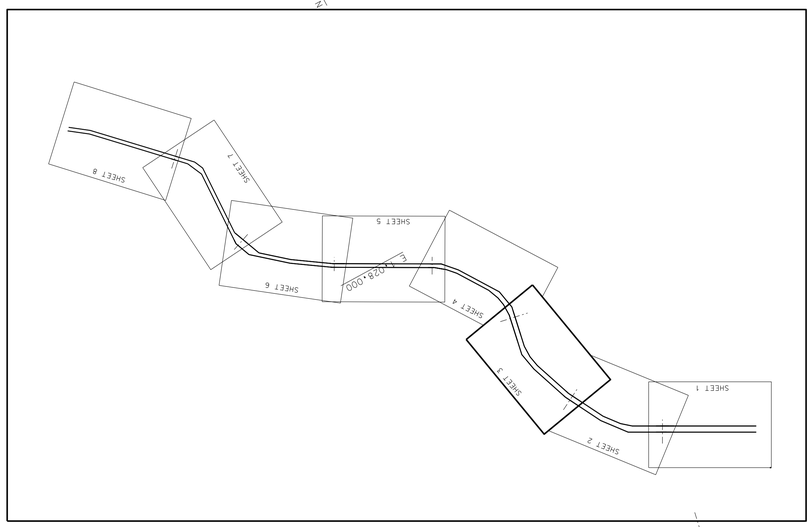
NSRS BENCHMARK

BENCHMARK: W340 1952
ELEVATION: 20.0 NAVD 1988

LOCAL CONTROL DATA

BENCHMARK: V 340
ELEVATION: 5150 NAVD 1988

STATION NAME	NORTHING (Y)	EASTING (X)
1	232957.598	1028133.105
2	234504.164	1027945.160
3	235381.555	1027352.054
4A	236043.097	1027488.985
4-65	236984.819	1027866.473
48	236715.052	1027723.022
14	237414.921	1028385.892
15	237564.723	1028510.166
16	237590.779	1028577.278
17	237918.230	1028635.447
18	238043.832	1028698.420
19	238436.634	1028884.029
19A	238643.951	1028689.325
20	240382.491	1028826.470
21	241105.893	1027810.361
22	241568.674	1027756.558
31	241720.209	1027709.749
32	241981.379	1027792.684
33	242929.382	1028675.522
34	243198.789	1028706.842
35	243688.857	1028555.525
36	243213.701	1028470.060
37	243513.567	1028465.006
38	243593.335	1028547.922
39	243673.446	1028652.739
40	243537.141	1028524.105
41	243622.260	1028539.747
42	244178.830	1028714.861
43	244104.611	1028714.853
44	242949.686	1028713.852
45	242570.699	1027962.386
46	241579.271	1027752.615
23	241094.705	1027888.441
24	240402.195	1028578.210
25	238764.868	1028745.699
26	238462.163	1028758.580
27	237108.060	1028617.489
28	237108.060	1028617.489
29	237497.058	1028525.927
Z1	238997.075	1028006.875
68	236846.016	1027882.864
68A	236682.568	1027796.359
9-68	236041.524	1027566.238
10-68	235318.964	1027431.939
11	235010.674	1027427.546
12	234817.991	1027465.640
13	232995.120	1028225.798



RED NUN # 10
EBB
17 MAY 2013

RED NUN # 12
EBB
17 MAY 2013

GREEN CAN # 13
EBB
17 MAY 2013

MATCH TO SHEET 4

MATCH TO SHEET 2

WRECK

80% MHW

RIPRAP

ROCKS/ DIKINGS

STORAGE

SW

E 1,028,500

N 237,500

N 237,000

E 1,027,500

N 236,500

E 1,027,000

3993
64

CORPS OF ENGINEERS

U. S. ARMY

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

N 237.500

N 238.000

N 238.500

E 1,028,500

E 1,029,000

E 1,029,500

GREEN CORE # 13 EBB 17 MAY 2013

MATCH TO SHEET 3

MATCH TO SHEET 5

STORAGE

STORAGE

RIPRAP

80% MH

LOD

ROD

REACH B

REACH C

WRECK

RAMP

UC

SW

SHEET 1

SHEET 2

SHEET 3

SHEET 4

SHEET 5

SHEET 6

SHEET 7

SHEET 8

U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)
1	232957.598	1028133.105
2	234904.164	1027345.160
3	235387.555	1027352.054
4A	236063.097	1027488.985
4B	236715.052	1027723.022
5-65	236914.811	1027866.673
14	237454.921	1028385.892
15	237566.723	1028510.366
16	237690.779	1028577.278
17	237878.220	1028635.447
18	238463.832	1028698.420
19	238643.953	1028689.325
19A	238836.634	1028647.029
20	240582.497	1028026.470
21	241045.890	1027830.361
22	241568.674	1027736.558
31	241720.209	1027709.369
32	241981.379	1027792.684
33	242929.382	1028635.522
34	243195.789	1028706.242
35	244868.857	1028555.525
36	245213.701	1028470.060
37	245573.547	1028455.006
38	245593.335	1028547.922
39	245473.440	1028552.939
40	245357.141	1028524.105
41	245222.260	1028529.747
42	244878.830	1028614.861
43	243106.611	1028774.893
44	242949.686	1028733.852
45	242070.699	1027952.386
23	241579.271	1027795.615
24	241059.705	1027888.841
25	240402.195	1028083.210
26	238756.868	1028743.699
27	238462.163	1028758.580
28	237708.060	1028671.489
29	237427.058	1028525.927
30-68	236997.075	1028006.875
7-68	236845.016	1027882.864
8-68	236682.568	1027796.359
9-68	236041.524	1027566.238
10-68	235378.964	1027431.939
11	235070.674	1027427.546
12	234871.991	1027463.640
13	232995.120	1028225.798

NSRS BENCHMARK	
BENCHMARK:	W340 1952
ELEVATION:	20.0 NAVD 1988

LOCAL CONTROL DATA	
BENCHMARK:	V 340
ELEVATION:	5.50 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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL 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 4.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN THINNED TO A 5' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NYDOT RTKNET".
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

SCALE: ONE INCH = 50 FEET

DATES OF SURVEY: 16-17, 21-22 MAY 2013

FIELD BOOKS: 15004, 5055

FILE NO.: 64 REQUEST NO.: 3993N3

APPROVED: P. KEARNS, FIELD SUPERVISOR

APPROVED: MARK FORTE, CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE, LEAD SURVEYMAN

APPROVED: J. MRAZ/P. PAPALONE, SURVEYING AND MAPPING BRANCH, CHIEF OF SURVEYS

DATE: 11 JUNE 2013

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

WESTCHESTER CREEK
NEW YORK
CONDITION SURVEY

VH–104

SHEET 4 OF 8

64
3993

CORPS OF ENGINEERS

U. S. ARMY

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

N 239,000

E 1,028,000

N 240,000

E 1,028,500

E 1,029,000

N 240,500

RIPRAP

RUIN

SUBMERGED PILINGS

submerged pilings

WRECK

SW

TANK

STA: CUMMINS
N 1028000.903
E 240319.047
ELEV= 8.94' (NAVD 88)
DESC: PK NAIL

ESQ PR
MKR MP

L00

80% MH

R00

MATCH TO SHEET 4

MATCH TO SHEET 6

SHEET 1

SHEET 2

SHEET 3

SHEET 4

SHEET 5

SHEET 6

SHEET 7

SHEET 8

U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)
1	232957.598	1028133.105
2	234904.164	1027345.160
3	235387.555	1027352.054
4A	236063.097	1027488.985
4B	236715.052	1027723.022
5-65	236984.819	1027866.673
14	237414.921	1028385.892
15	237566.723	1028510.366
16	237690.779	1028577.278
17	237878.220	1028635.447
18	238463.832	1028698.420
19	238643.953	1028689.325
19A	238836.634	1028647.029
20	240382.497	1028026.470
21	241045.890	1027830.361
22	241568.674	1027736.558
31	241720.209	1027709.369
32	241981.379	1027792.684
33	242929.382	1028635.522
34	243199.789	1028706.242
35	244868.857	1028555.525
36	245213.701	1028470.060
37	245573.547	1028455.006
38	245593.335	1028547.922
39	245473.440	1028552.939
40	245357.141	1028524.105
41	245222.260	1028529.747
42	244878.830	1028614.861
43	243106.611	1028774.893
44	242949.686	1028733.852
45	242070.699	1027952.386
23	241579.271	1027795.615
24	241059.705	1027888.841
25	240402.195	1028083.210
26	238756.868	1028743.699
27	238462.163	1028758.580
28	237708.060	1028677.489
29	237427.058	1028525.927
30-68	236997.075	1028006.875
7-68	236845.016	1027882.864
8-68	236682.568	1027796.359
9-68	236041.524	1027566.238
10-68	235378.964	1027431.939
11	235070.674	1027427.546
12	234877.991	1027463.640
13	232995.120	1028225.798

NSRS BENCHMARK	
BENCHMARK:	W340 1952
ELEVATION:	20.10 NAVD 1988

LOCAL CONTROL DATA	
BENCHMARK:	V 340
ELEVATION:	5.50 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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL 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 4.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN THINNED TO A 5' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NYDOT RTKNET".
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
1998: 855

DATE: 11 JUNE 2010

APPROVED: PETER E. KOPP
APPROVED: MARK FORTE
APPROVED: BLANKE
APPROVED: POSTOLONE

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

WESTCHESTER CREEK
NEW YORK
CONDITION SURVEY

VH-105

SHEET 5 OF 8

64
3993

CORPS OF ENGINEERS

U. S. ARMY

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

E 1,027,500 N 240,500 N 241,000 N 241,500

STA: CUMMINS
N 1028000.903
E 240319.047
ELEV: 8.94' (NAVD 88)
DESC: PK NAIL

E 1,028,000

E 1,028,500

E 1,029,000

N 242,000

RIPRAP

ROCK PILE

STORAGE

AREA U/C

REACH C

REACH D

LOD

80% MHW

100% MHW

MATCH TO SHEET 5

MATCH TO SHEET 7

PILING CLUSTER

O/H

SW

WS

MD

SHEET 1

SHEET 2

SHEET 3

SHEET 4

SHEET 5

SHEET 6

SHEET 7

SHEET 8

U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)
1	232957.598	1028133.105
2	234904.164	1027345.160
3	235387.555	1027352.054
4A	236063.097	1027488.985
4B	236715.052	1027723.022
5-65	236984.819	1027866.673
14	237414.921	1028385.892
15	237566.723	1028510.366
16	237690.779	1028577.278
17	237878.220	1028635.447
18	238463.832	1028698.420
19	238643.953	1028689.325
19A	238836.634	1028647.029
20	240382.497	1028026.470
21	241045.890	1027830.361
22	241568.674	1027736.558
31	241720.209	1027709.369
32	241981.379	1027792.684
33	242929.382	1028635.522
34	243199.789	1028706.242
35	244868.857	1028555.525
36	245213.701	1028470.060
37	245573.547	1028455.006
38	245593.335	1028547.922
39	245473.440	1028552.939
40	245357.140	1028524.105
41	245222.260	1028529.747
42	244878.830	1028614.861
43	243106.611	1028774.893
44	242949.686	1028733.852
45	242070.699	1027952.386
23	241579.271	1027795.615
24	241059.705	1027888.841
25	240402.195	1028083.210
26	238756.868	1028743.699
27	238462.163	1028758.580
28	237708.060	1028677.489
29	237427.058	1028525.927
30-68	236997.075	1028006.875
7-68	236845.016	1027882.864
8-68	236682.568	1027786.359
9-68	236041.524	1027566.238
10-68	235378.964	1027431.939
11	235070.674	1027427.546
12	234871.991	1027463.640
13	232995.120	1028225.798

NSRS BENCHMARK	
BENCHMARK:	W340 1952
ELEVATION:	2010 NAVD 1988

LOCAL CONTROL DATA	
BENCHMARK:	V 340
ELEVATION:	5150 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 SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL 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 4.0 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN THINNED TO A 5' 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.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FIRST STATION "NYDOT RTKNET".
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

DATES OF SURVEY: 15 - 17, 21-22 MAY 2013

SCALE: ONE INCH = 100 FEET

FIELD BOOKS: 5388, 5389

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

OPERATIONS DIVISION
SURVEY SECTION
CONTROL BRANCH

WESTCHESTER CREEK
NEW YORK
CONDITION SURVEY

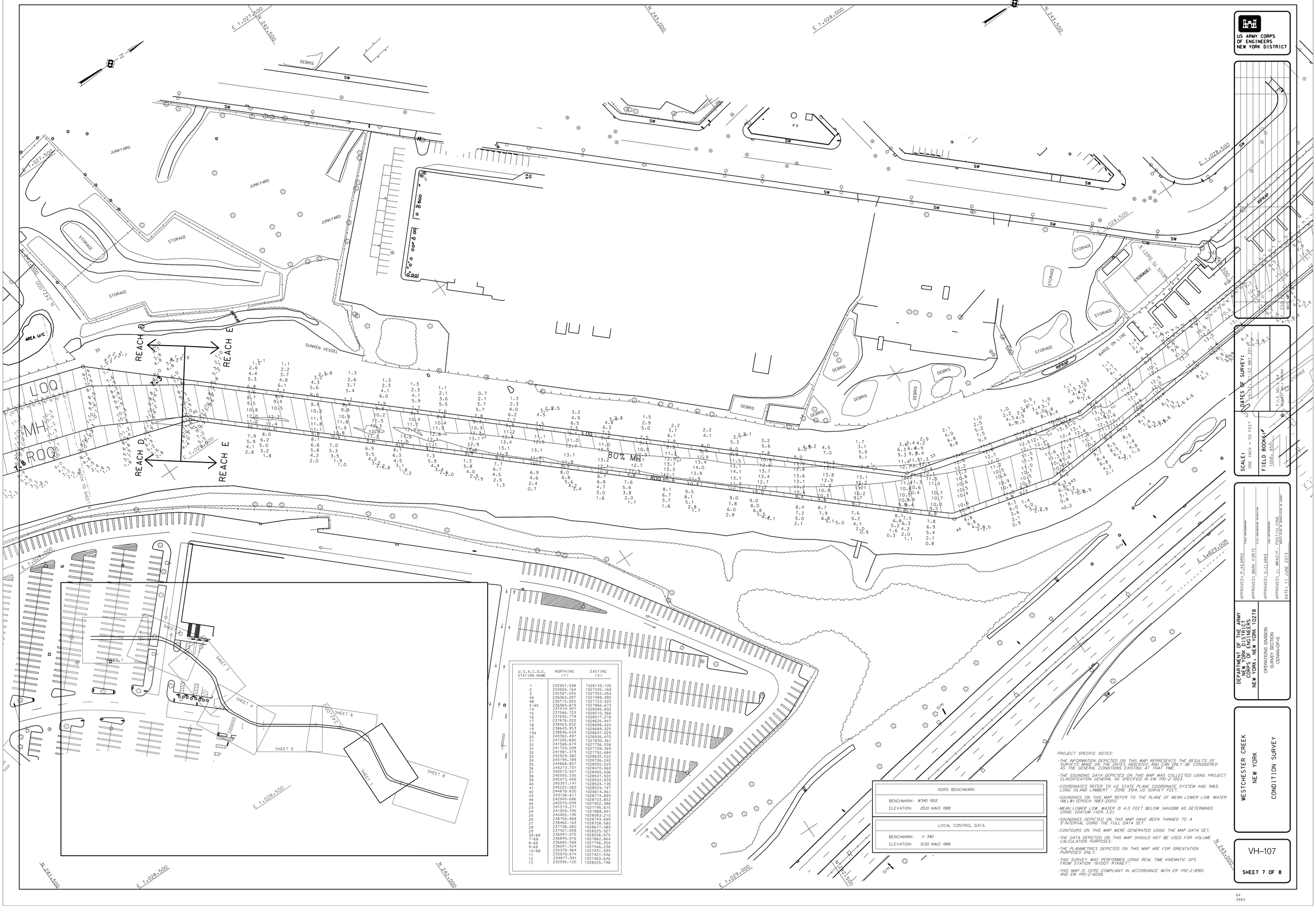
VH-101

SHEET 6 OF 8

64
3993

CORPS OF ENGINEERS

U. S. ARMY



U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)
1	232957.598	1028133.105
2	234904.164	1027345.160
3	235387.555	1027352.054
4A	236063.097	1027488.985
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15	237566.723	1028510.366
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19	238643.953	1028689.325
19A	238836.634	1028647.029
20	240382.497	1028026.470
21	241045.890	1027830.361
22	241568.674	1027736.558
31	241720.209	1027709.369
32	241981.379	1027792.684
33	242929.382	1028635.522
34	243199.789	1028706.242
35	244868.857	1028555.525
36	245213.701	1028470.060
37	245573.547	1028455.006
38	245593.335	1028547.922
39	245473.440	1028552.939
40	245357.141	1028524.105
41	245222.260	1028529.747
42	244878.830	1028614.861
43	243106.611	1028774.893
44	242949.686	1028733.852
45	242070.699	1027952.386
23	241579.271	1027795.615
24	241059.705	1027888.841
25	240402.195	1028083.210
26	238756.868	1028743.699
27	238462.163	1028758.580
28	237708.060	1028677.489
29	237427.058	1028525.927
30-68	236997.075	1028006.875
7-68	236845.016	1027882.864
8-68	236682.568	1027796.359
9-68	236041.524	1027566.238
10-68	235378.964	1027431.939
11	235070.674	1027427.546
12	234877.991	1027463.640
13	232995.120	1028225.798

NSRS BENCHMARK	
BENCHMARK:	W340 1952
ELEVATION:	20.10 NAVD 1988

LOCAL CONTROL DATA	
BENCHMARK:	V 340
ELEVATION:	51.50 NAVD 1988

PROJECT SPECIFIC NOTES:

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- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "NYDOT RTKNET".
- 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

DATES OF SURVEY: 15-17, 21-22 MAY 2013

FILE NO.: 64 (CALCULATION NO.: 1 FROM)

SCALE: ONE INCH = 50 FEET

FIELD BOOKS: 1008, 855

APPROVED: P. KEARNS — FIELD CARTOGRAPHER

APPROVED: MARK FORTE — CIVIL ENGINEERING TECHNICIAN

APPROVED: D. CLARKE — LEAD CARTOGRAPHER

APPROVED: J. MRAZ/F. POSTIGLIONE — DEPUTY CHIEF OF SURVEY/CHIEF OF SURVEY

DATE: 11 JUNE 2013

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

WESTCHESTER CREEK
NEW YORK
CONDITION SURVEY

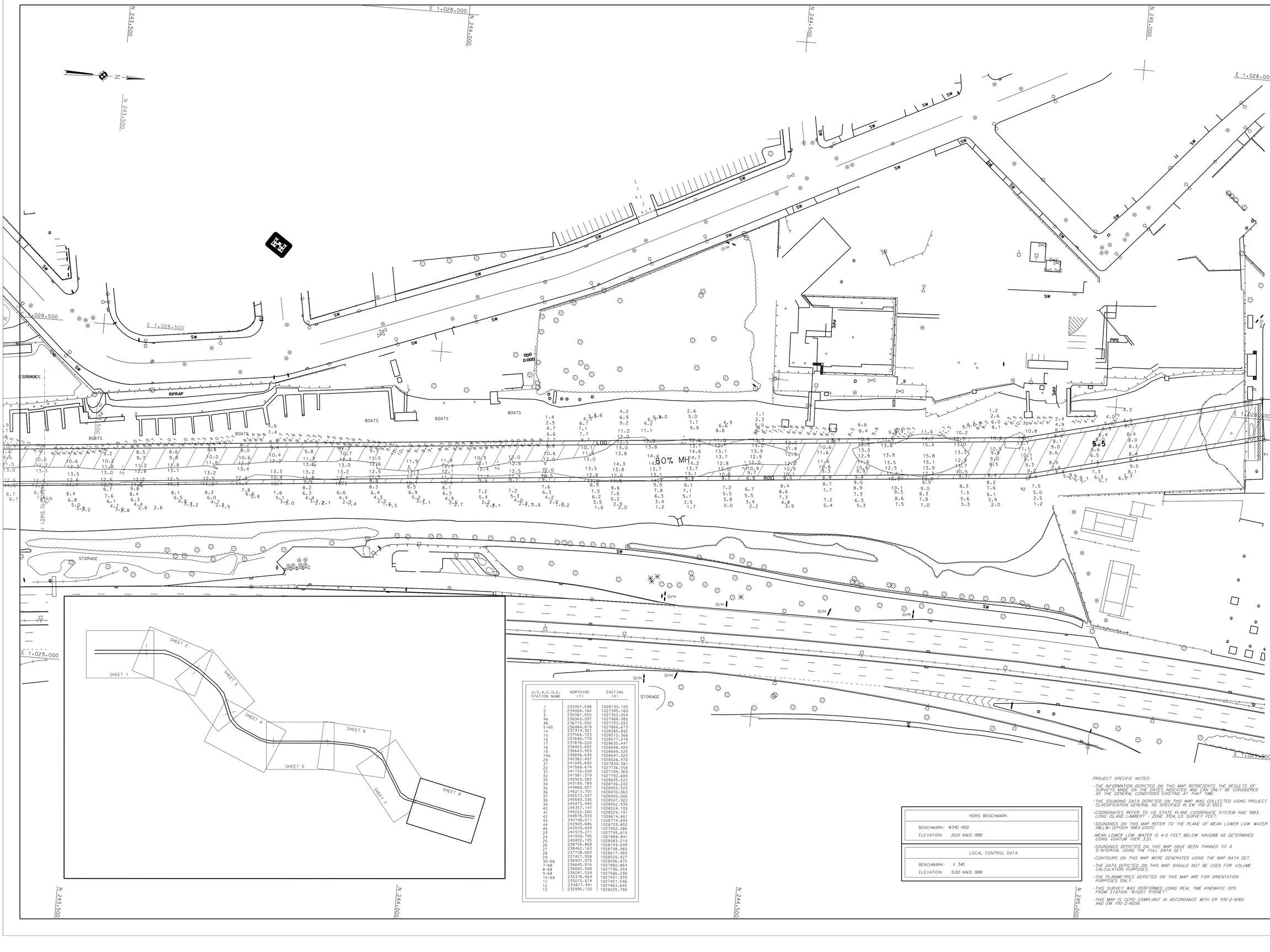
VH-107

SHEET 7 OF 8

64
3993

CORPS OF ENGINEERS

U. S. ARMY



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24	241059.705	1027888.841
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11	235070.674	1027427.546
12	234817.991	1027463.640
13	232995.120	1028225.798

NSRS BENCHMARK	
BENCHMARK:	W340 1952
ELEVATION:	20.10 NAVD 1988

LOCAL CONTROL DATA	
BENCHMARK:	V 340
ELEVATION:	5\50 NAVD 1988

PROJECT SPECIFIC NOTES:

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ESD PR
MAPS MP

DATES OF SURVEY:
16-17, 21-22 MAY 2013

F.I.E. NO.: 64
REQUEST NO.: 399343

SCALE:
ONE INCH = 50 FEET

FIELD BOOKS:
1508_595

APPROVED: P. KEARNS — FIELD CAMPAIGNER
APPROVED: MARK FORTE — CHIEF, ENGINEERING SECTION
APPROVED: D. CLARKE — CHIEF CAMPAIGNER
APPROVED: J. MRAZ/F. POSTIGLIONE — DEPUTY CHIEF OF SURVEY/CHIEF OF SURVEY
DATE: 11 JUNE 2013

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

WESTCHESTER CREEK
NEW YORK
CONDITION SURVEY

VH–108

SHEET 8 OF 8

64
3993