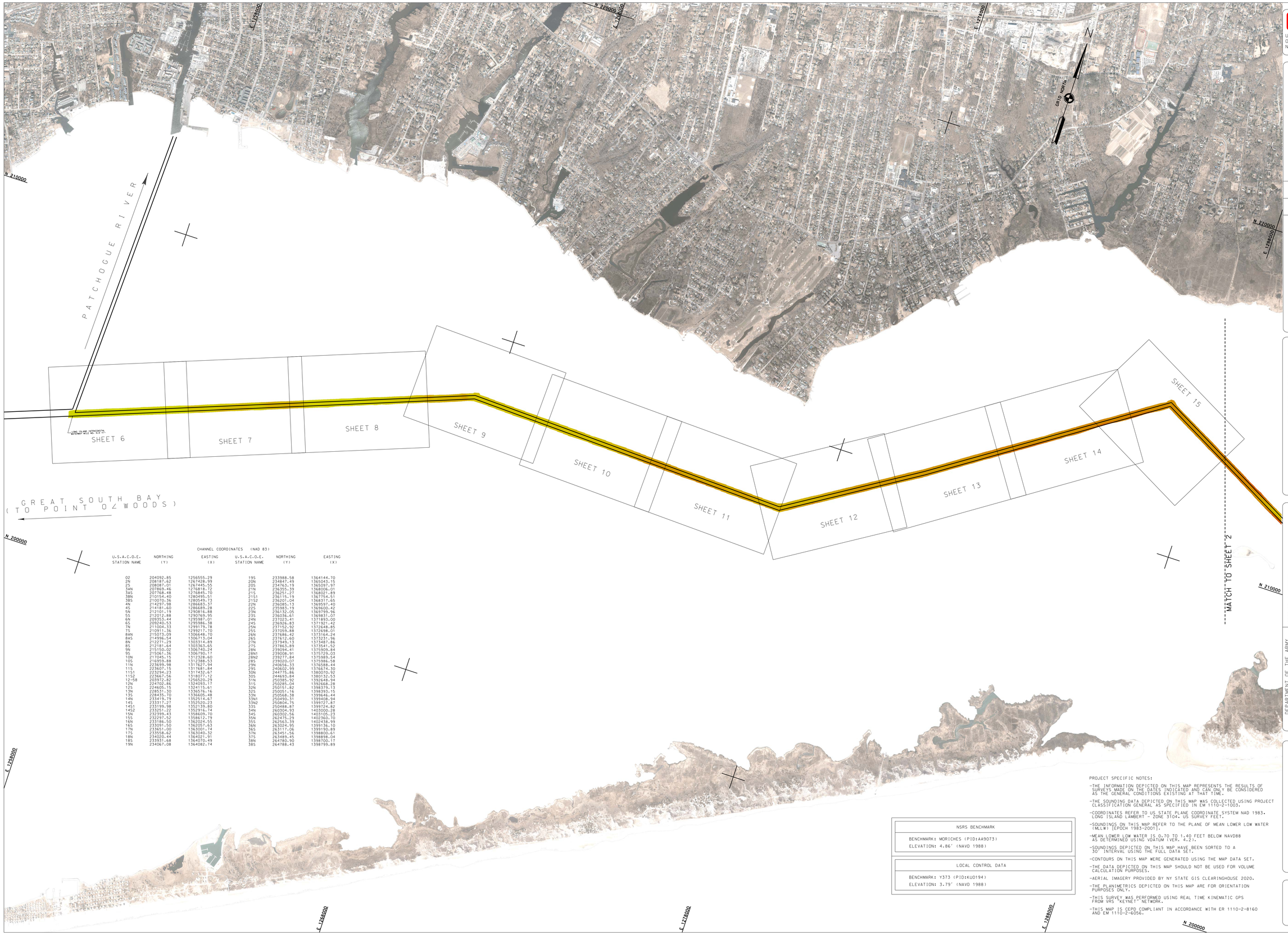
CORPS OF ENGINEERS

U. S. ARMY



CHANNEL COORDINATES (NAD 83)

U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)	U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)
02	204092.85	1256555.29	19S	233988.58	1364144.70
2N	208187.62	1267428.99	20N	234847.49	1365043.15
2S	208087.01	1267445.55	20S	234763.19	1365097.97
3AN	207869.46	1276818.72	21N	236355.39	1368006.01
3AS	207768.48	1276845.70	21S	236251.27	1368021.89
3BN	210154.40	1280495.51	21S1	236115.19	1367754.51
3BS	210070.36	1280549.73	21S2	236201.04	1368317.65
4N	214297.98	1286683.37	22N	236085.13	1369597.40
4S	214181.60	1286689.28	22S	235983.19	1369600.42
5N	212101.19	1290816.88	23N	236132.05	1369799.96
5S	212012.88	1290769.95	23S	236036.61	1369831.07
6N	209353.44	1295987.01	24N	237023.41	1371893.00
6S	209240.53	1295986.38	24S	236926.83	1371921.42
7N	211004.33	1299179.78	25N	237152.92	1372648.85
7S	210911.36	1299217.70	25S	237059.88	1372698.01
8AN	215073.09	1306648.70	26N	237686.42	1373164.24
8AS	214986.54	1306713.04	26S	237612.60	1373231.96
8N	212271.29	1303314.89	27N	237949.13	1373487.86
8S	212181.64	1303363.65	27S	237863.89	1373541.52
9N	215150.02	1306740.24	28N	239094.41	1375909.84
9S	215061.36	1306790.17	28N1	239008.91	1375729.03
10N	217045.15	1312328.60	28N2	239277.84	1375989.54
10S	216959.88	1312388.53	28S	239020.07	1375986.58
11N	223699.98	1317627.94	29N	240656.33	1376588.44
11S	223607.15	1317681.84	29S	240602.98	1376674.30
11S1	223294.23	1317432.67	30N	244775.86	1380070.92
11S2	223467.60	1317657.12	30S	244693.84	1380132.53
12N58	204702.58	1254805.29	31N	250385.92	1392648.94
12N	204792.86	1254973.77	31S	250301.72	1392704.94
12S	224605.15	1324115.61	32N	250051.82	1398379.13
13N	228531.30	1336576.16	32S	250051.16	1398393.15
13S	228455.70	1336605.48	33N	250568.38	1398646.44
14N	233419.79	1352514.67	33N1	250490.31	1399408.94
14S	233317.27	1352520.23	33N2	250804.75	1399727.87
14S1	233199.98	1352139.80	33S	250488.87	1399724.82
14S2	233251.22	1352916.74	34N	260304.93	1403000.28
15N	232399.43	1358609.70	34S	260302.56	1403105.23
15S	232297.52	1358612.79	35N	262475.29	1402360.70
16N	233186.50	1362024.55	35S	262563.39	1402438.99
16S	233091.50	1362057.63	36N	263024.95	1399136.10
17N	233651.00	1363001.74	36S	263117.06	1399190.89
17S	233558.62	1363040.32	37N	263451.56	1398800.61
18N	234020.44	1364021.91	37S	263489.45	1398898.04
18S	233931.68	1364070.49	38N	264780.90	1398700.17
19N	234067.08	1364082.74	38S	264788.43	1398799.89

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: Y373 (PID:KU0194)
ELEVATION: 3.79' (NAVD 1988)

PROJECT SPECIFIC NOTES:

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-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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING, PLLC
Mailing Address: P.O. Box 1
Staten Island, N.Y. 10309
(718) 447-2777
www.rogerssurveying.net

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:

DATES OF SURVEY: 10 AUG. - 07 OCT. 2021

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER

APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR — CAD CARTOGRAPHER

APPROVED: J. MIAZ — BEACH POINT OF SUNSET

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

SHEET LAYOUT

CONDITION SURVEY

VH-101

SHEET 1 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY



CHANNEL COORDINATES (NAD 83)

U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)	U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)
0Z	204092.85	1256556.29	19S	233988.58	1364144.70
2N	208187.62	1267428.99	20N	234847.49	1365043.15
2S	208087.01	1267445.55	20S	234763.19	1365097.97
3AN	207869.46	1276818.72	21N	236355.39	1368006.01
3AS	207768.48	1276845.70	21S	236251.27	1368021.89
3BN	210154.40	1280495.51	21S1	236115.19	1367754.51
3BS	210070.36	1280549.73	21S2	236201.04	1368317.65
4N	214297.98	1286683.37	22N	236085.13	1369597.40
4S	214181.60	1286689.28	22S	235983.19	1369600.42
5N	212101.19	1290816.88	23N	236132.05	1369799.96
5S	212012.88	1290769.95	23S	236036.61	1369831.07
6N	209353.44	1295987.01	24N	237023.41	1371893.00
6S	209240.53	1295986.38	24S	236926.83	1371921.42
7N	211004.33	1299179.78	25N	237152.92	1372648.85
7S	210911.36	1299217.70	25S	237059.88	1372698.01
8AN	215073.09	1306648.70	26N	237686.42	1373164.24
8AS	214996.54	1306713.04	26S	237612.60	1373231.96
8N	212737.29	1303314.89	27N	237949.13	1373487.86
8S	212181.64	1303363.65	27S	237863.89	1373541.52
9N	215150.02	1306740.24	28N	239094.41	1375909.84
9S	215061.16	1306790.17	28N1	239008.91	1375729.03
10N	217045.15	1312328.60	28N2	239277.84	1375989.54
10S	216959.88	1312388.53	28S	239020.07	1375986.58
11N	223699.98	1317627.94	29N	240656.33	1376588.44
11S	223607.15	1317681.84	29S	240602.99	1376674.30
11S1	223294.23	1317432.67	30N	244775.86	1380070.92
11S2	223667.56	1318077.12	30S	244693.84	1380132.53
12-58	203972.82	1256520.29	31N	250385.92	1392648.94
12N	224702.86	1324093.17	31S	250285.04	1392688.28
12S	224605.15	1324115.61	32N	250151.82	1398379.13
13N	228531.20	1336576.16	32S	250051.16	1398393.15
13S	228435.70	1336605.48	33N	250568.38	1399646.44
14N	233419.79	1352514.67	33N1	250490.31	1399408.94
14S	233317.27	1352520.23	33N2	250804.75	1399727.87
14S1	233199.98	1352139.80	33S	250488.87	1399724.82
14S2	233251.22	1352916.74	34N	260304.93	1403000.28
15N	232399.43	1358609.70	34S	260302.56	1403105.23
15S	232297.52	1358612.79	35N	262475.29	1402360.70
16N	233196.50	1362024.55	35S	262563.39	1402436.90
16S	233091.50	1362057.63	36N	263024.95	1399136.10
17N	233651.00	1363001.74	36S	263117.06	1399190.89
17S	233558.62	1363040.32	37N	263451.56	1398800.61
18N	234020.44	1364021.91	37S	263489.45	1398898.04
18S	233931.68	1364070.49	38N	264780.90	1398700.17
19N	234067.08	1364082.74	38S	264788.43	1398799.89

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: Y373 (PID:KU0194) ELEVATION: 3.79' (NAVD 1988) BENCHMARK: ARESKONK CREEK PK/W ELEVATION: 3.92' (NAVD 1988)

PROJECT SPECIFIC NOTES:

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-THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL AS SPECIFIED IN EM 1110-2-1003.

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-SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) [EPOCH 1983-2001].

-MEAN LOWER LOW WATER IS 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING, PLLC
Rogers Surveying, PLLC
Staten Island, N.Y. 10309
(718) 414-2222
www.rogerssurveyingpllc.com

DATES OF SURVEY: 10 AUG. - 07 OCT. 2021

SCALE: ONE INCH = 1000 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD SURVEILLANCE

APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHABUR — CHIEF SURVEILLANCE

APPROVED: J. MIRAZ — CHIEF, CHIEF OF SURVEY

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OD-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

SHEET LAYOUT

CONDITION SURVEY

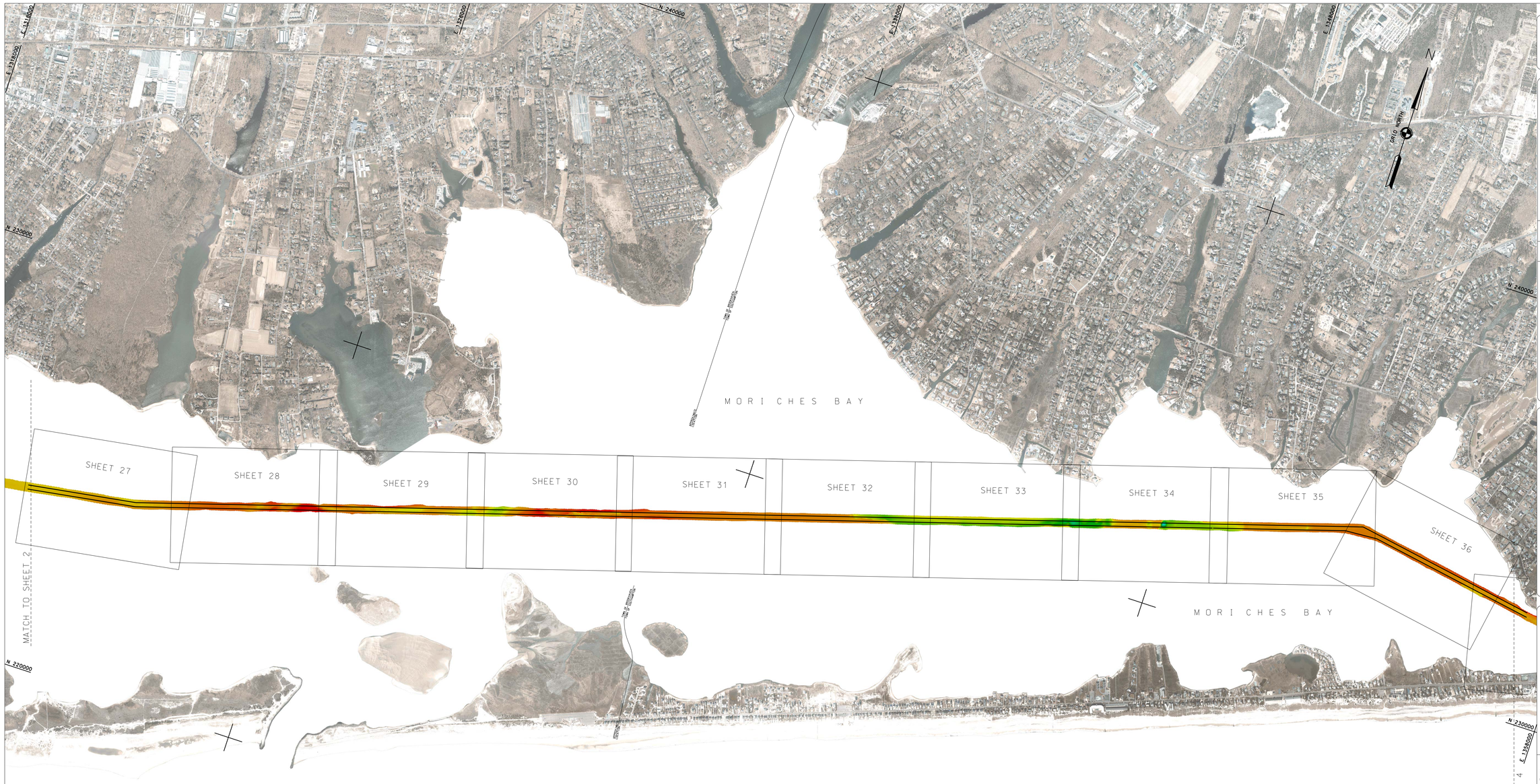
VH-102

SHEET 2 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY



CHANNEL COORDINATES (NAD 83)

U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)	U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)
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2S	208087.01	1267445.55	20S	234763.19	1365097.97
3AN	207869.46	1276818.72	21N	236355.39	1368006.01
3AS	207768.48	1276845.70	21S	236251.27	1368021.89
3BN	210154.40	1280495.51	21S1	236115.19	1367754.51
3BS	210070.36	1280549.73	21S2	236201.04	1368317.65
4N	214297.98	1286683.37	22N	236085.13	1369597.40
4S	214181.60	1286689.28	22S	235983.19	1369600.42
5N	212101.19	1290816.88	23N	236132.05	1369799.96
5S	212012.88	1290769.95	23S	236036.61	1369831.07
6N	209353.44	1295987.01	24N	237023.41	1371893.00
6S	209240.53	1295986.38	24S	236926.83	1371921.42
7N	211004.33	1299179.78	25N	237152.92	1372648.85
7S	210911.36	1299217.70	25S	237059.88	1372698.01
8AN	215073.09	1306648.70	26N	237686.42	1373164.24
8AS	214996.54	1306711.04	26S	237612.60	1373231.96
8N	212271.29	1303514.89	27N	237949.13	1373487.86
8S	212181.64	1303363.65	27S	237863.89	1373541.52
9N	215150.02	1306740.24	28N	239094.41	1375909.84
9S	215061.36	1306790.17	28N1	239008.91	1375729.03
10N	217045.15	1312328.60	28N2	239277.84	1375989.54
10S	216959.88	1312388.53	28S	239020.07	1375986.58
11N	223699.98	1317627.94	29N	240656.33	1376588.44
11S	223607.15	1317681.84	29S	240602.99	1376674.30
11S1	223294.23	1317432.67	30N	244775.86	1380070.92
11S2	223667.56	1318077.12	30S	244693.84	1380132.53
12-58	203972.82	1256520.29	31N	250385.92	1392648.94
12N	224702.86	1324093.17	31S	250285.04	1392668.28
12S	224605.15	1324115.61	32N	250151.82	1398379.13
13N	228531.30	1336576.16	32S	250051.16	1398393.15
13S	228435.70	1336605.48	33N	250568.38	1399646.44
14N	233419.79	1352514.67	33N1	250490.31	1399408.94
14S	233317.27	1352520.23	33N2	250804.75	1399727.87
14S1	233199.98	1352135.80	33S	250485.87	1399724.82
14S2	233251.22	1352916.74	34N	260304.93	1403000.28
15N	232399.43	1358609.70	34S	260302.56	1403105.23
15S	232297.52	1358612.79	35N	262475.29	1402360.70
16N	233186.50	1362024.55	35S	262563.39	1402438.99
16S	233091.50	1362057.63	36N	263024.95	1399136.10
17N	233651.00	1363001.74	36S	263117.06	1399190.89
17S	233558.62	1363040.32	37N	263451.56	1398800.61
18N	234020.44	1364021.91	37S	263489.45	1398898.04
18S	233931.68	1364070.49	38N	264780.90	1398700.17
19N	234067.08	1364082.74	38S	264788.43	1398799.89

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: ARESKONK CREEK PKW
ELEVATION: 3.92' (NAVD 1988)
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)
BENCHMARK: WEST BAY BRIDGE
ELEVATION: 3.26' (NAVD 1988)

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US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
Staten Island, N.Y. 10309
(718) 447-2700
www.rogerssurveying.com

DATES OF SURVEY: 10 AUG. - 07 OCT. 2021

SCALE: ONE INCH = 1000 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD SURVEILLANCE

APPROVED: M. FORTE — CHIEF, ENGINEERING TECHNICIAN

APPROVED: P. BHADURI — CHIEF HYDROGRAPHER

APPROVED: J. MIRAZ — CHIEF, SHOP OF SURVEY

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

SHEET LAYOUT

CONDITION SURVEY

VH-103

SHEET 3 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY



CHANNEL COORDINATES (NAD 83)

U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)	U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)
4S	214181.60	1286689.28	21S1	236115.19	1367754.51
5N	212101.19	1290816.88	21S2	236201.04	1368317.65
5S	212012.88	1290769.95	22N	236085.13	1369597.40
6N	209353.44	1295987.01	22S	235983.19	1369600.42
6S	209240.53	1295986.38	23N	236132.05	1369799.96
7N	211004.33	1299179.78	23S	236036.61	1369831.07
7S	210911.36	1299217.70	24N	237023.41	1371893.00
8AN	215073.09	1306648.70	24S	236926.83	1371921.42
8AS	214996.54	1306713.04	25N	237152.92	1372648.85
8N	212271.29	1303314.89	25S	237059.88	1372698.01
8S	212181.64	1303363.65	26N	237686.42	1373164.24
9N	215150.02	1306740.24	26S	237612.60	1373231.96
9S	215061.36	1306790.17	27N	237949.13	1373487.86
10N	217045.15	1312328.60	27S	237863.89	1373541.52
10S	216959.88	1312388.53	28N	239094.41	1375909.84
11N	223699.98	1317627.94	28N1	239008.91	1375729.03
11S	223607.15	1317681.84	28N2	239277.84	1375989.54
11S1	223294.23	1317432.67	28S	239020.07	1375986.58
11S2	223667.56	1318077.12	29N	240656.33	1376588.44
12N	224702.86	1324093.17	29S	240602.99	1376674.30
12S	224605.15	1324115.61	30N	244775.86	1380070.92
13N	228531.10	1336576.16	30S	244691.84	1380132.53
13S	228435.70	1336605.48	31N	250385.92	1392648.94
14N	233419.79	1352514.67	31S	250285.04	1392668.28
14S	233317.27	1352520.23	32N	250151.82	1398379.13
14S1	233199.98	1352139.80	32S	250051.16	1398393.15
14S2	233251.22	1352916.74	33N	250568.38	1399646.44
15N	232399.43	1358609.70	33N1	250490.31	1399408.94
15S	232297.52	1358612.79	33N2	250804.75	1399727.87
16N	233186.50	1362024.55	33S	250488.87	1399724.82
16S	233091.60	1362057.63	34N	260304.93	1403000.28
17N	233651.00	1363001.74	34S	260302.56	1403105.23
17S	233558.62	1363040.32	35N	262475.29	1402360.70
18N	234020.44	1364021.91	35S	262563.39	1402438.99
18S	233931.68	1364070.49	36N	263024.95	1399136.10
19N	234067.08	1364082.74	36S	263117.06	1399190.89
19S	233988.58	1364144.70	37N	263451.56	1398800.61
20N	234847.49	1365043.15	37S	263489.45	1398898.04
20S	234763.19	1365097.97	38N	264780.90	1398700.17
21N	236355.39	1368006.01	38S	264788.43	1398799.89
21S	236251.27	1368021.89			

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: WEST BAY BRIDGE
ELEVATION: 3.26' (NAVD 1988)
BENCHMARK: PINE NECK POINT PKW
ELEVATION: 3.86' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING, PLLC
Stony Brook, N.Y. 11790
(631) 675-0100
www.rogerssurveying.net

SCALE:
ONE INCH = 1000 FEET

FIELD BOOKS:

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS
FIELD CHIEF/ENGINEER

APPROVED: M. FORTE
CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR
CHIEF CARTOGRAPHER

APPROVED: J. MRAZ
CHIEF, SURVEY SECTION, OPERATIONS DIVISION

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY - N.Y.

SHEET LAYOUT

CONDITION SURVEY

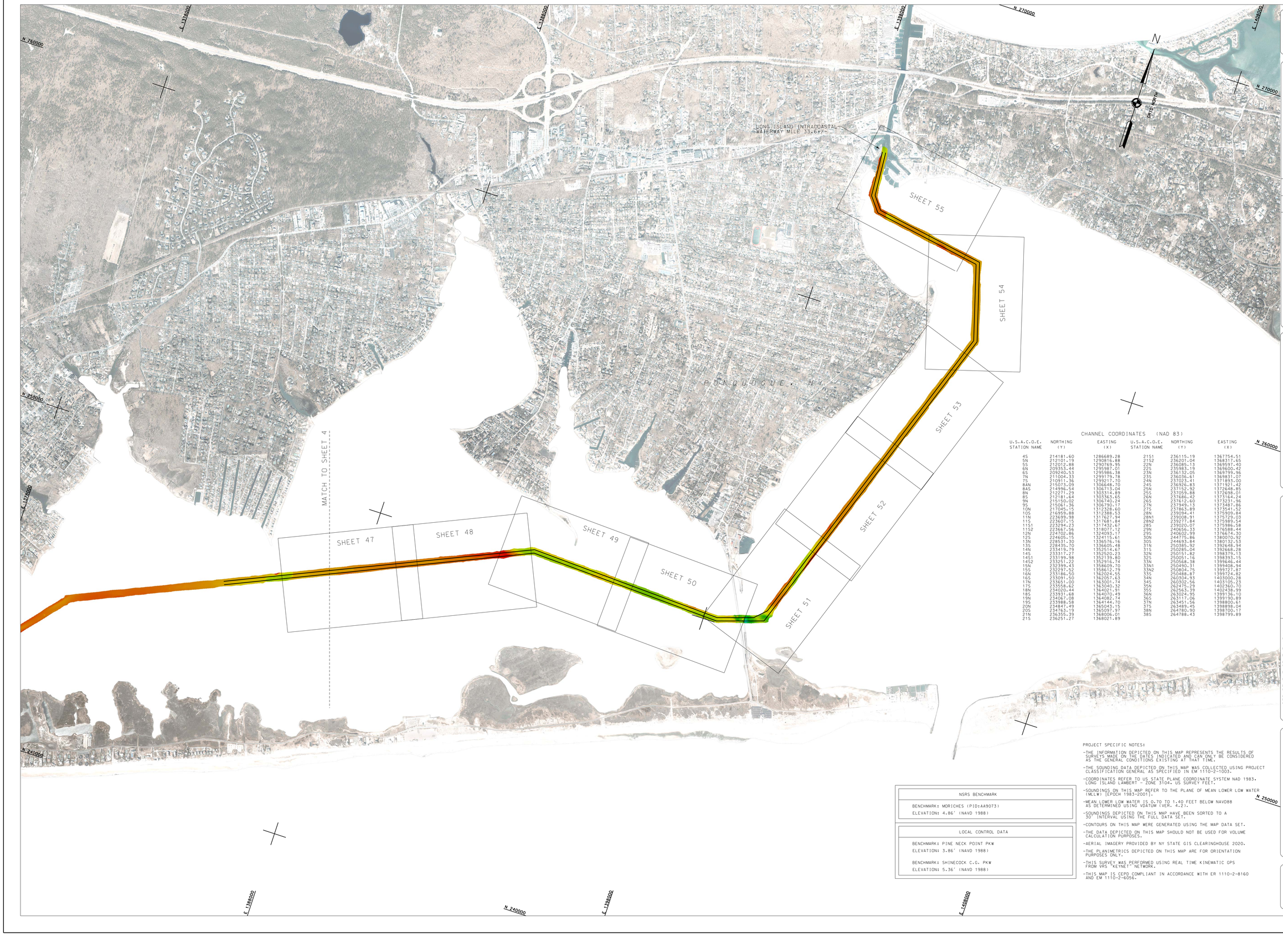
VH-104

SHEET 4 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY



CHANNEL COORDINATES (NAD 83)

U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)	U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)
4S	214181.60	1286689.28	21S1	236115.19	1367754.51
5N	212101.19	1290816.88	21S2	236201.04	1368317.65
5S	212012.88	1290769.95	22N	236085.13	1369597.40
6N	209353.44	1295987.01	22S	235983.19	1369600.42
6S	209240.53	1295986.38	23N	236132.05	1369799.96
7N	211004.33	1299179.78	23S	236036.61	1369831.07
7S	210911.36	1299217.70	24N	237023.41	1371893.00
8AN	215073.09	1306648.70	24S	236926.83	1371921.42
8AS	214996.54	1306713.04	25N	237152.92	1372648.85
8N	212271.29	1303314.89	25S	237059.88	1372698.01
8S	212181.64	1303363.65	26N	237686.42	1373164.24
9N	215150.02	1306740.24	26S	237612.60	1373231.96
9S	215061.36	1306790.17	27N	237949.13	1373487.86
10N	217045.15	1312328.60	27S	237863.89	1373541.52
10S	216959.88	1312388.53	28N	239094.41	1375909.84
11N	223693.98	1317627.94	28N1	239008.91	1375729.03
11S	223607.15	1317681.84	28N2	239277.84	1375989.54
11S1	223294.23	1317432.67	28S	239020.07	1375986.58
11S2	223667.56	1318077.12	29N	240656.33	1376588.44
12N	224702.86	1324093.17	29S	240602.99	1376674.30
12S	224605.15	1324115.61	30N	244775.86	1380070.92
13N	228531.30	1336576.16	30S	244693.84	1380132.53
13S	228435.70	1336605.48	31N	250385.92	1392648.94
14N	233419.79	1352514.67	31S	250285.04	1392668.28
14S	233317.27	1352520.23	32N	250151.82	1398379.13
14S1	233199.98	1352139.80	32S	250051.16	1398393.15
14S2	233251.22	1352916.74	33N	250568.38	1399646.44
15N	232399.43	1358609.70	33N1	250490.31	1399408.94
15S	232297.52	1358612.79	33N2	250804.75	1399727.87
16N	233186.50	1362024.55	33S	250488.87	1399724.82
16S	233091.50	1362057.63	34N	260304.93	1403000.28
17N	233651.00	1363001.74	34S	260302.56	1403105.23
17S	233558.62	1363040.32	35N	262475.29	1402360.70
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21N	236355.39	1368006.01	38S	264788.43	1398799.89
21S	236251.27	1368021.89			

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: PINE NECK POINT PKW ELEVATION: 3.86' (NAVD 1988)
BENCHMARK: SHINECOCK C.G. PKW ELEVATION: 5.36' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS 'KEYNET' NETWORK.

-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

ROGERS SURVEYING, PLLC
Professional Land Surveyors
Staten Island, N.Y. 10309
(718) 761-4113
www.rogerssurveyingllc.net

DATES OF SURVEY: 10 AUG. - 07 OCT. 2021

SCALE: ONE INCH = 1000 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CHRONOLOGIST

APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR — CASE CHRONOLOGIST

APPROVED: J. MRAZ — SENIOR CHIEF OF SURVEY

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

SHEET LAYOUT

CONDITION SURVEY

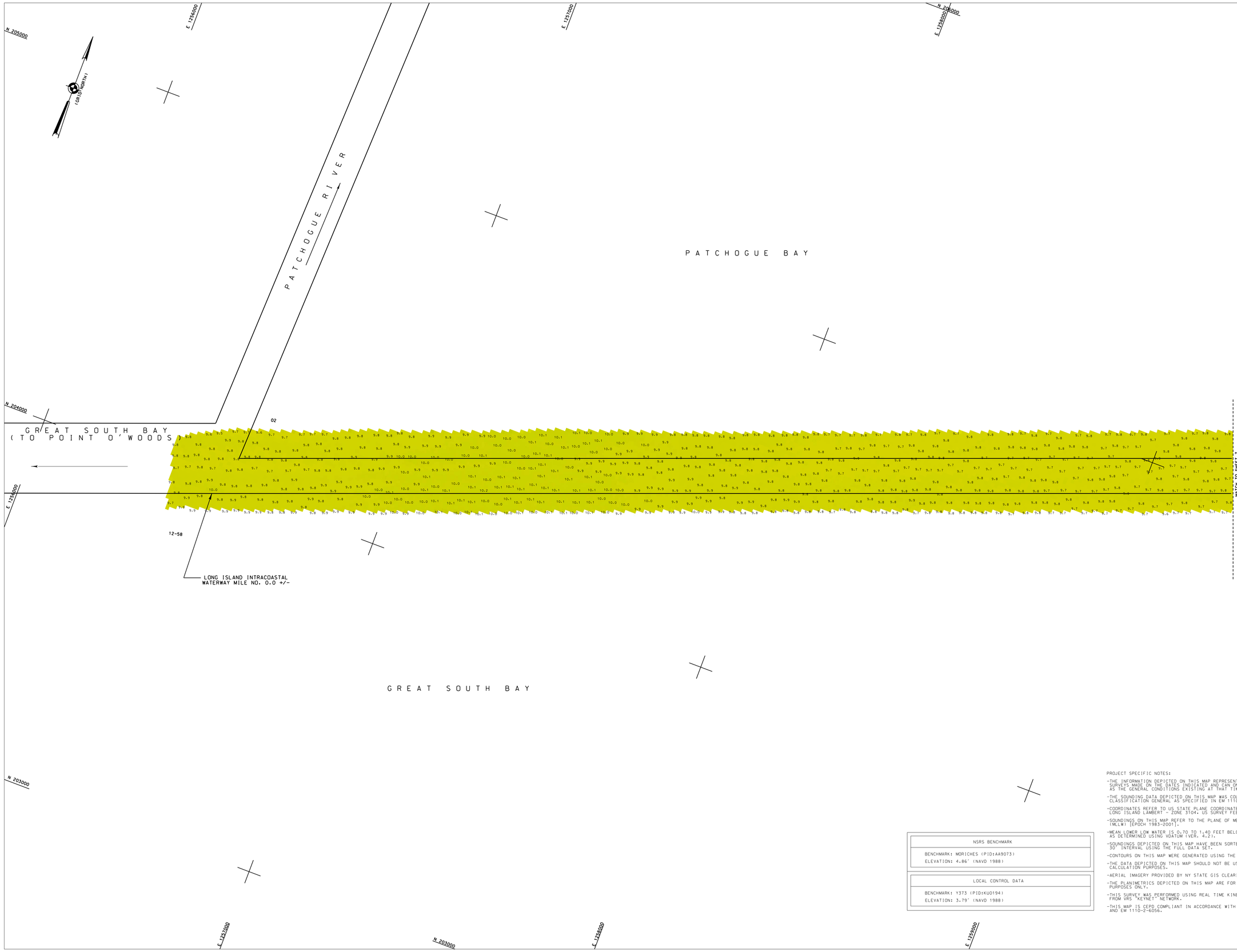
VH-105

SHEET 5 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY



NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: Y373 (PID:KU0194)
ELEVATION: 3.79' (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].

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-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING PLLC
2228 Jerusalem Ave.
Bellmore, N.Y. 11710
(516) 679-2211
www.rogerssurveying.com

DATES OF SURVEY: 10 AUG. - 07 OCT. 2021

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.:

APPROVED: D. ROGERS, FIELD SURVEILLANCE
APPROVED: M. FORTE, CHIEF, ENGINEERING TECHNICIAN
APPROVED: P. BHADUR, CHIEF SURVEILLANCE
APPROVED: J. MRAZ, CHIEF, CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

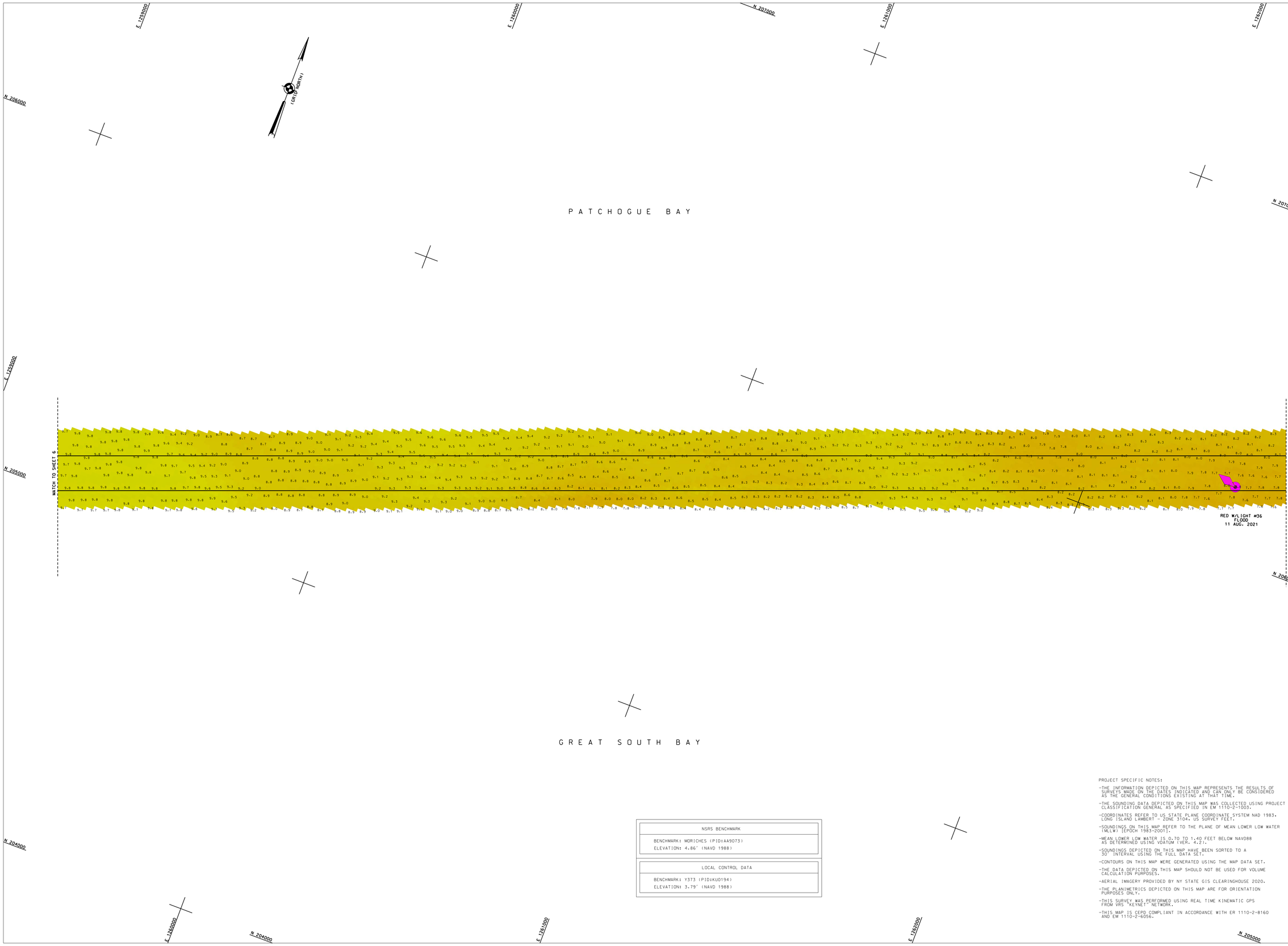
VH-106

SHEET 6 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY



NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: Y373 (PID:KU0194) ELEVATION: 3.79' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.
- 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

ROGERS SURVEYING, PLLC
2420 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 441-2191
www.rogerssurveying.net

DATES OF SURVEY: 10 AUG. - 07 OCT. 2021

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

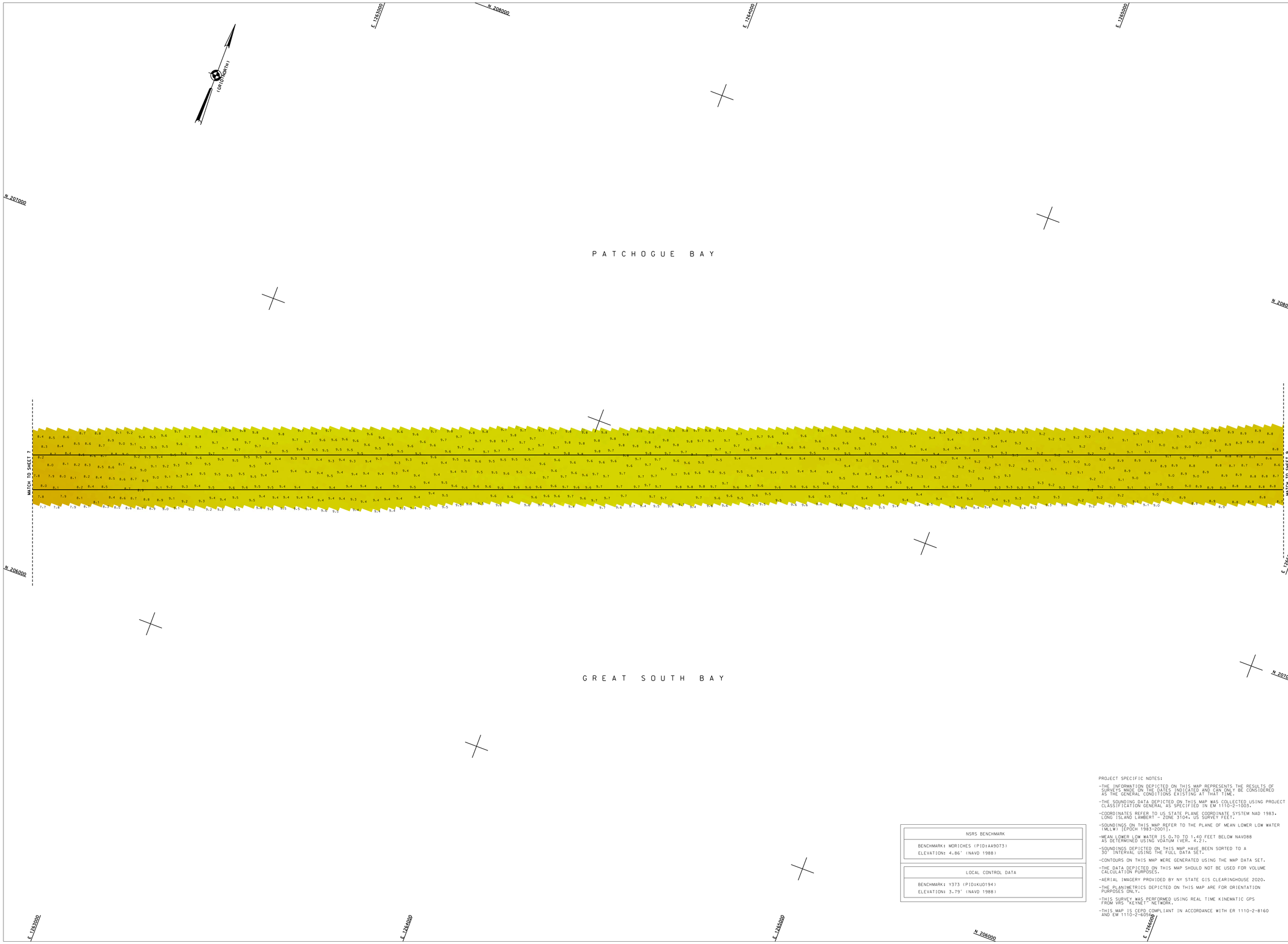
VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

VH-107

SHEET 7 OF 55

REQ NO./FILE NO.: 5082



NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: Y373 (PID:KU0194) ELEVATION: 3.79' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' INTERVAL USING THE FULL DATA SET.
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- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- AERIAL IMAGERY PROVIDED BY NY STATE GIS CLEARINGHOUSE 2020.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.
- 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

ROGERS SURVEYING, PLLC
2429 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 447-7311
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

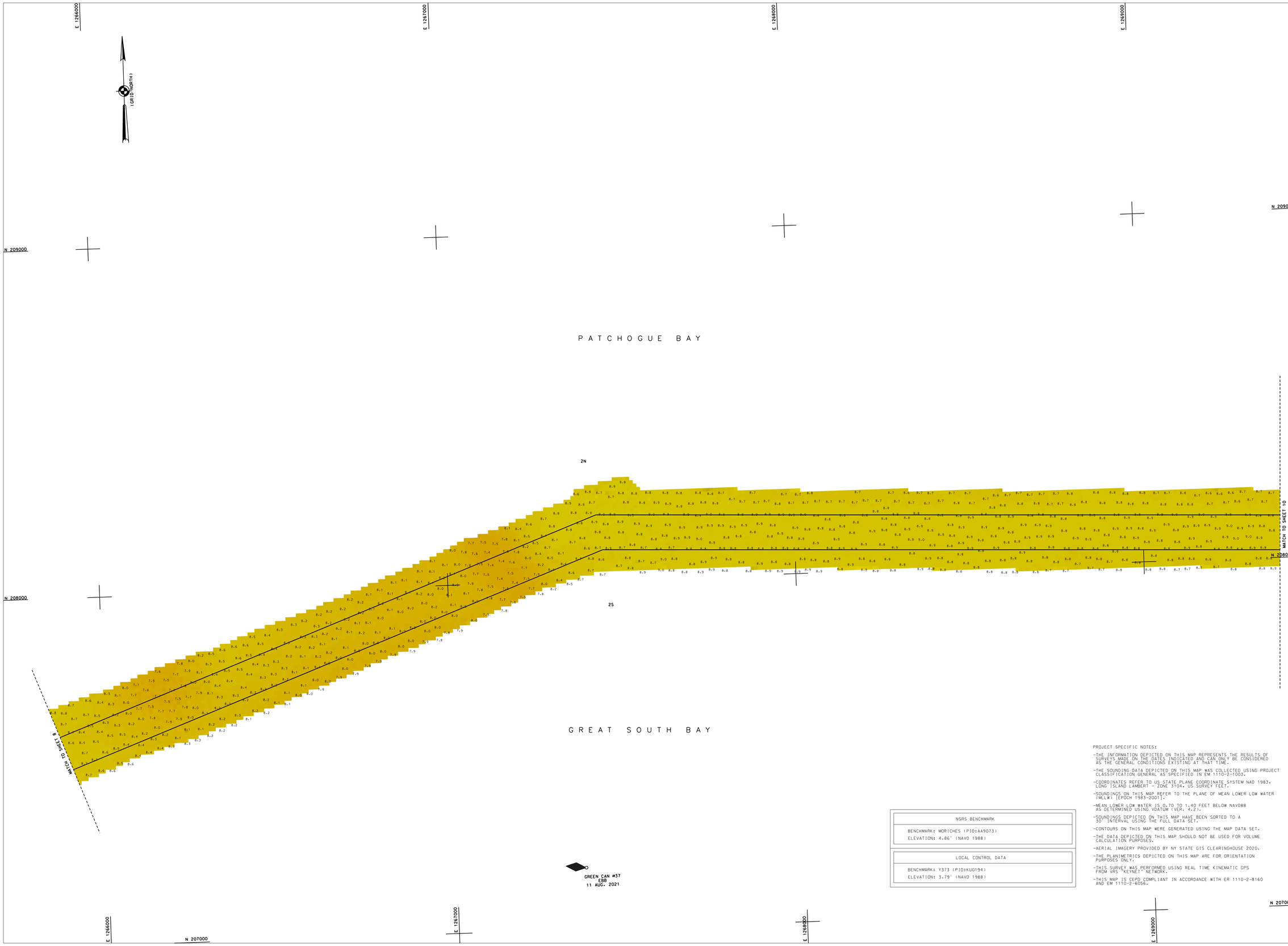
LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

VH-108

SHEET 8 OF 55



US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
2420 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 447-2191
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

REQ NO./FILE NO.: 5082

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — SURVEY CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

VH-109

SHEET 9 OF 55

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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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.
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- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: Y373 (PID:KU0194) ELEVATION: 3.79' (NAVD 1988)

CORPS OF ENGINEERS

U. S. ARMY

E 1270000

E 1271000

E 1272000

E 1273000

(GRID NORTH)

N 209000

N 209000

PATCHOGUE BAY

N 208000

N 208000

MATCH TO SHEET 9

MATCH TO SHEET 11

RED W/LIGHT #38
EBB
11 AUG. 2021

GREAT SOUTH BAY

N 207000

N 207000

E 1270000

E 1271000

E 1272000

E 1273000

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: Y373 (PID:KU0194)
ELEVATION: 3.79' (NAVD 1988)

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US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
Staten Island, N.Y. 10309
(718) 442-7533
www.rogerssurveying.com

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS, FIELD CARTOGRAPHER

APPROVED: M. FORTE, CHIEF, ENGINEERING TECHNICIAN

APPROVED: P. BHADUR, CHIEF CARTOGRAPHER

APPROVED: J. MRAZ, CHIEF, SURVEY SECTION

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

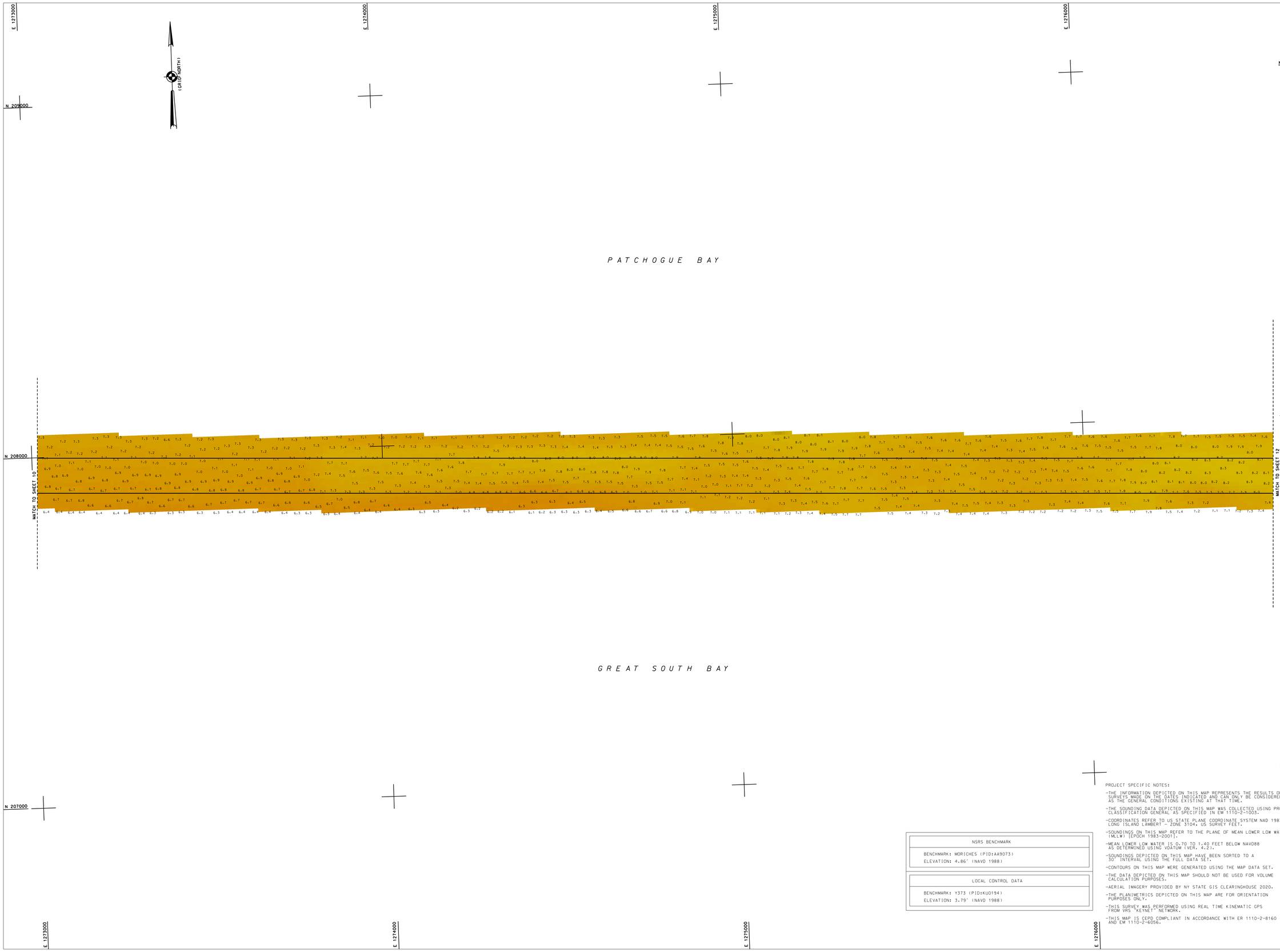
VH-110

SHEET 10 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY



NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: Y373 (PID:KU0194) ELEVATION: 3.79' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.
- 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

ROGERS SURVEYING, PLLC
2420 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 447-2191
www.rogerssurveying.net

DATES OF SURVEY: 10 AUG. - 07 OCT. 2021

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PATCHOGUE BAY, N.Y.

CONDITION SURVEY

VH-111

SHEET 11 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

E 1275000 | N 209000 | E 1277000 | N 210000 | E 1279000

(GRID NORTH)

E 1276000

N 208000

BELLPORT BAY

MATCH TO SHEET 11

3AN

GREEN W/LIGHT #1
FLOOD
12 AUG. 2021

MATCH TO SHEET 13

3AS

GREAT SOUTH BAY

N 207000

E 1277000

E 1278000 | N 207000

E 1279000 | N 208000

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: Y373 (PID:KU0194)
ELEVATION: 3.79' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING PLLC
2420 Jerusalem Ave #6
Bellmore, N.Y. 11710
(516) 785-1571
www.rogerssurveying.com

DATES OF SURVEY:
10 AUG. - 01 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — SYS. ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CHIEF CARTOGRAPHER
APPROVED: J. MRAZ — CHIEF, SURVEY SECTION
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PATCHOGUE BAY, N.Y.

CONDITION SURVEY

VH-112

SHEET 12 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

E 1278000 N 211000 E 1280000 N 212000 E 1282000

(GRID NORTH)

E 1278000 N 210000

BELLPORT BAY

3BN

MATCH TO SHEET 12

MATCH TO SHEET 14

RED NUN #2
EBB
12 AUG. 2021

3BS

N 208000 GREAT SOUTH BAY N 209000 N 210000 N 211000

E 1280000 E 1281000 E 1282000 E 1283000

NSRS BENCHMARK

BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA

BENCHMARK: Y373 (PID:KU0194)
ELEVATION: 3.79' (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 0.7 TO 1.4 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING PLLC
2420 Jericho Tpk Ste.
Stony Brook, NY, 11790
(631) 751-1177
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS FIELD SURVEYING
APPROVED: M. FORTE CHIEF ENGINEERING TECHNICIAN
APPROVED: P. BHADUR CHIEF CARTOGRAPHER
APPROVED: J. MRAZ CHIEF, BRANCH OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF BELLPORT, N.Y.

CONDITION SURVEY

VH-113

SHEET 13 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

E 1285000
N 213000
E 1285000
N 214000
E 1285000
N 212000
E 1285000
N 214000
E 1285000
N 211000
N 213000
E 1285000
N 211000
E 1285000
N 212000
E 1285000

(GRID NORTH)

BELLPORT BAY

GREAT SOUTH BAY

MATCH TO SHEET 13

MATCH TO SHEET 15

RED NUN #4
EBB
12 AUG. 2021

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: Y373 (PID:KU0194)
ELEVATION: 3.79' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING PLLC
Dominick Rogers
Staten Island, N.Y. 10309
(718) 447-7222
www.rogerssurveying.com

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

RED NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD SURVEYOR/MAP
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CHIEF SURVEYOR/MAP
APPROVED: J. MRAZ — CHIEF, CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

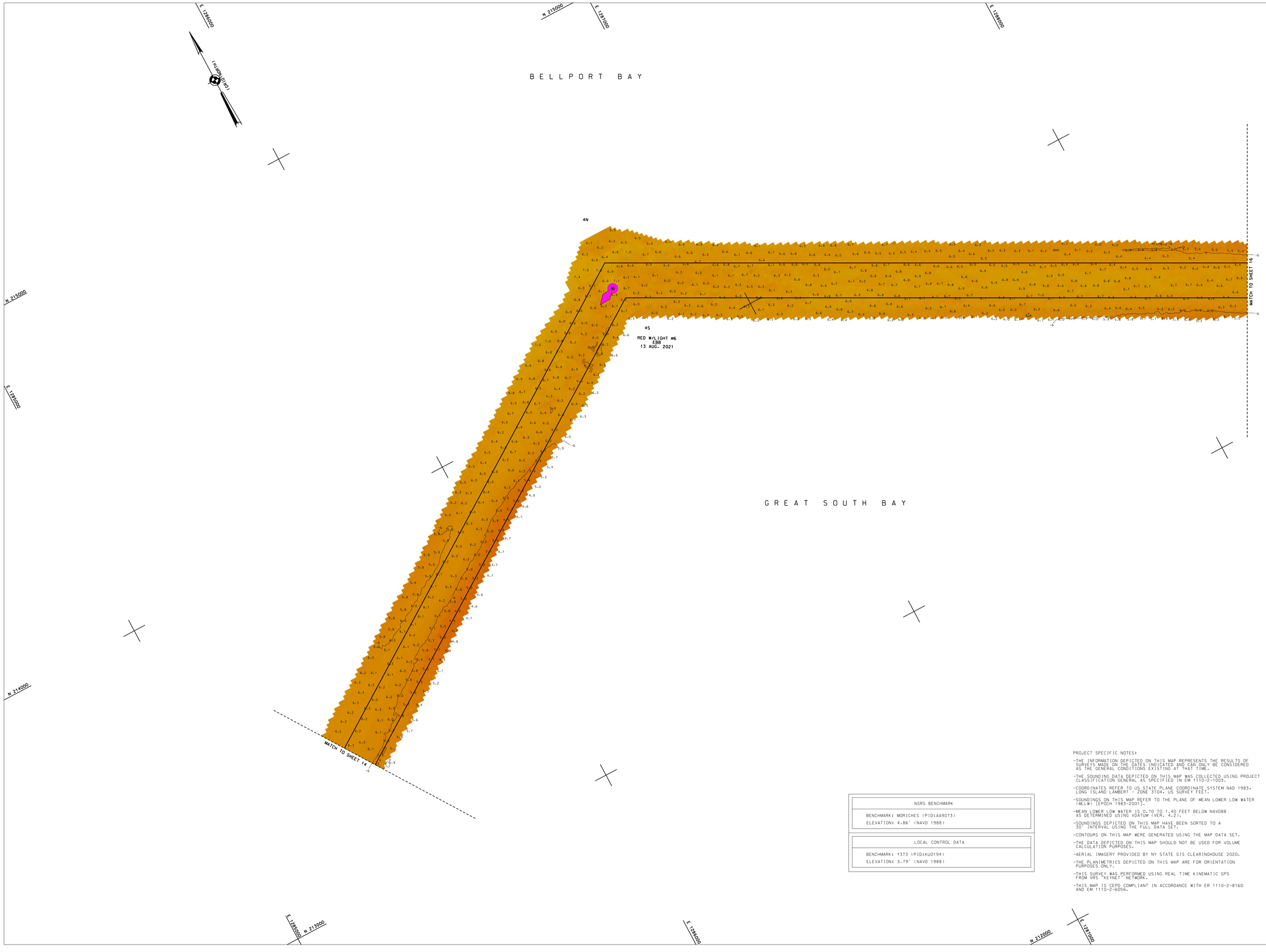
LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF BELLPORT, N.Y.
CONDITION SURVEY

VH-114

SHEET 14 OF 55

CORPS OF ENGINEERS

U. S. ARMY



NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: Y373 (PID:KU0194)
ELEVATION: 3.79' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING, PLLC
Stony Brook, NY 11790
(631) 675-2200
www.rogerssurveyingllc.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CHIEF CARTOGRAPHER
APPROVED: J. MRAZ — CHIEF, SURVEY SHOP OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF BELLPORT, N.Y.
CONDITION SURVEY

VH-115

SHEET 15 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

E. 1289000 | N. 214000 | E. 1290000 | E. 1291000 | N. 213000 | E. 1292000

N 214000

E. 1292000

LONG ISLAND LIGHT

B E L L P O R T B A Y

GREEN CAN #7
FLOOD
13 AUG. 2021

MATCH TO SHEET 15

5N

55

MATCH TO SHEET 17

N 212000

RED NUN #8
FLOOD
16 AUG. 2021

N 213000
E. 1289000

G R E A T S O U T H B A Y

N 211000

E. 1291000

E. 1289000 N 212000 | E. 1289000 | N 211000 E. 1290000

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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: Y373 (PID:KU0194) ELEVATION: 3.79' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
Marine Surveying
Staten Island, N.Y. 10309
(718) 442-7550
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: B. ROGERS — FIELD CERTIFICATION
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CASE CERTIFICATION
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF BELLPORT BAY, N.Y.

CONDITION SURVEY

VH-116

SHEET 16 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

E 1292000

E 1293000

N 212000

E 1294000

N 211000

E 1295000

(41480/81)

BELLPORT BAY

N 212000

GREEN CAN #9
FLOOD
16 AUG. 2021

MATCH TO SHEET 16

MATCH TO SHEET 18

N 210000

RED NUN #10
FLOOD
17 AUG. 2021

GREAT SOUTH BAY

N 211000

E 1291000

N 210000

E 1292000

E 1293000

N 209000

E 1294000

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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: Y373 (PID:KU0194)
ELEVATION: 3.79' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING PLLC
2024 Vista Cliff Rd.
Saint Helena, KY 18509
(541) 815-2222
www.rogerssurveying.net

SCALE: ONE INCH = 100 FEET

DATES OF SURVEY: 10 AUG. - 07 OCT. 2021

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS FIELD CARTOGRAPHER

APPROVED: M. FORTE CHIEF, ENGINEERING TECHNICIAN

APPROVED: P. BHADUR CHIEF CARTOGRAPHER

APPROVED: J. MRAZ CHIEF, BRANCH OF SURVEY

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF BELLPORT BAY, N.Y.

CONDITION SURVEY

VH-117

SHEET 17 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

N 210000

E 1295000

E 1296000

E 1297000

MATCH TO SHEET 17

(GRID NORTH)

6N

6S

GREAT SOUTH BAY

MATCH TO SHEET 19

N 209000

N 208000

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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 50' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: NOS 3825B ELEVATION: 14.43' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
Mailing Address: P.O. Box 1000
Staten Island, N.Y. 10309
(718) 447-2500
www.rogerssurveying.com

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CHIEF, ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CHIEF CARTOGRAPHER
APPROVED: J. MRAZ — CHIEF, SURVEY GROUP OF SURVEY
DATE: 12 NOV. 2021

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

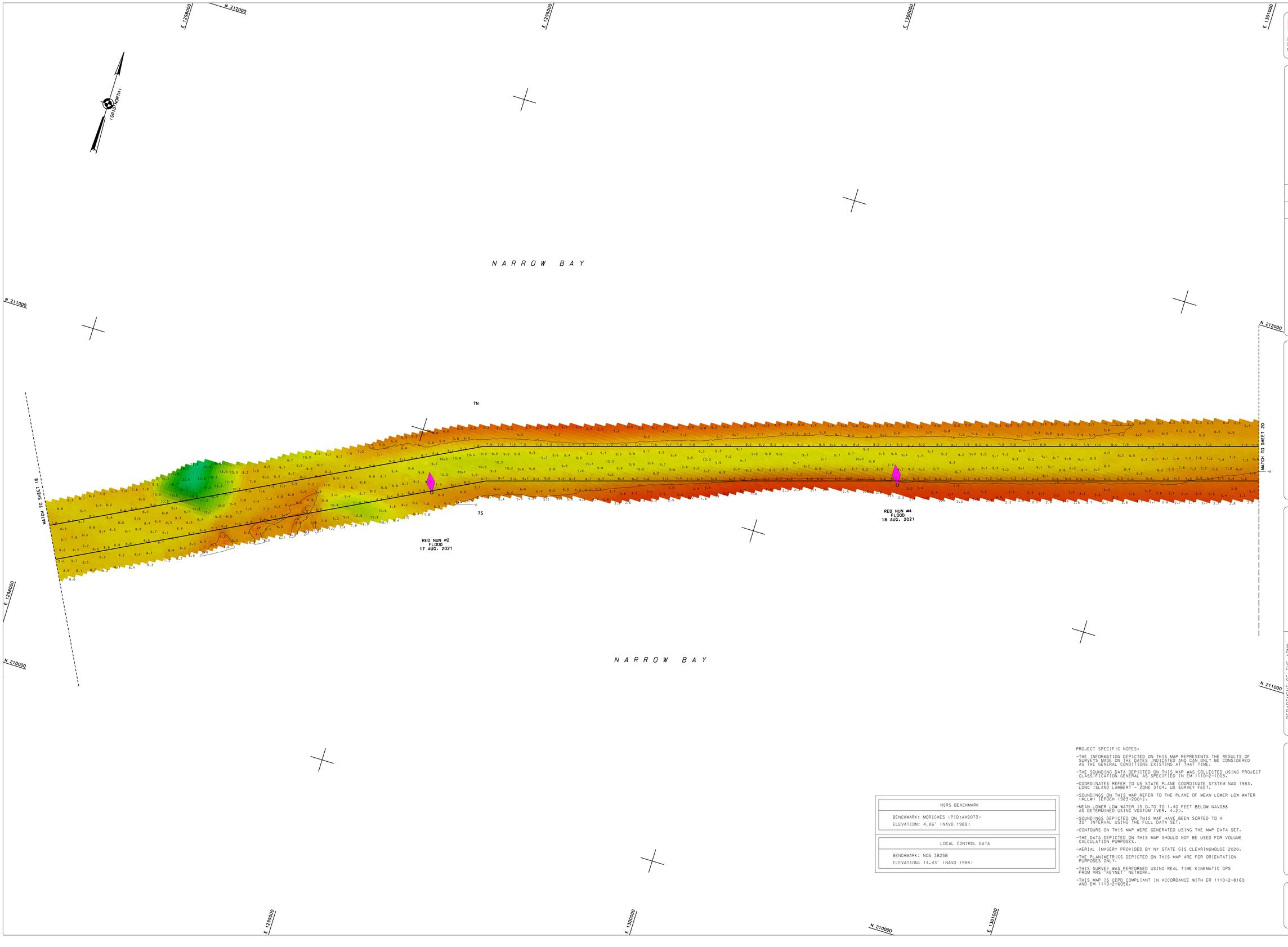
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF SMITH POINT, N.Y.
CONDITION SURVEY

VH-118

SHEET 18 OF 55

REQ NO./FILE NO.: 5082



NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: NOS 3825B ELEVATION: 14.43' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.
- 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

ROGERS SURVEYING, PLLC
2429 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 447-7311
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF NARROW BAY, N.Y.

CONDITION SURVEY

VH-119

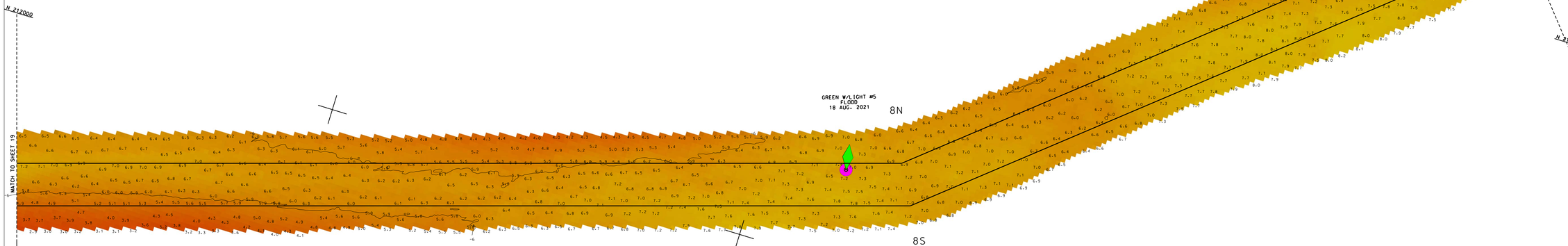
CORPS OF ENGINEERS

U. S. ARMY





NARROW BAY



NARROW BAY



NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)
LOCAL CONTROL DATA
BENCHMARK: NOS 3825B ELEVATION: 3.79' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.
- 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

ROGERS SURVEYING, PLLC
Staten Island, N.Y. 10309
(718) 815-7070
www.rogerssurveying.net

SCALE: ONE INCH = 100 FEET

DATES OF SURVEY: 10 AUG. - 07 OCT. 2021

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD PHOTOGRAPHER

APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHASKAR — CHIEF CARTOGRAPHER

APPROVED: J. MRAZ — BRANCH CHIEF OF SURVEY

DATE: 1-2 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF MASTIC BEACH, N.Y.
CONDITION SURVEY

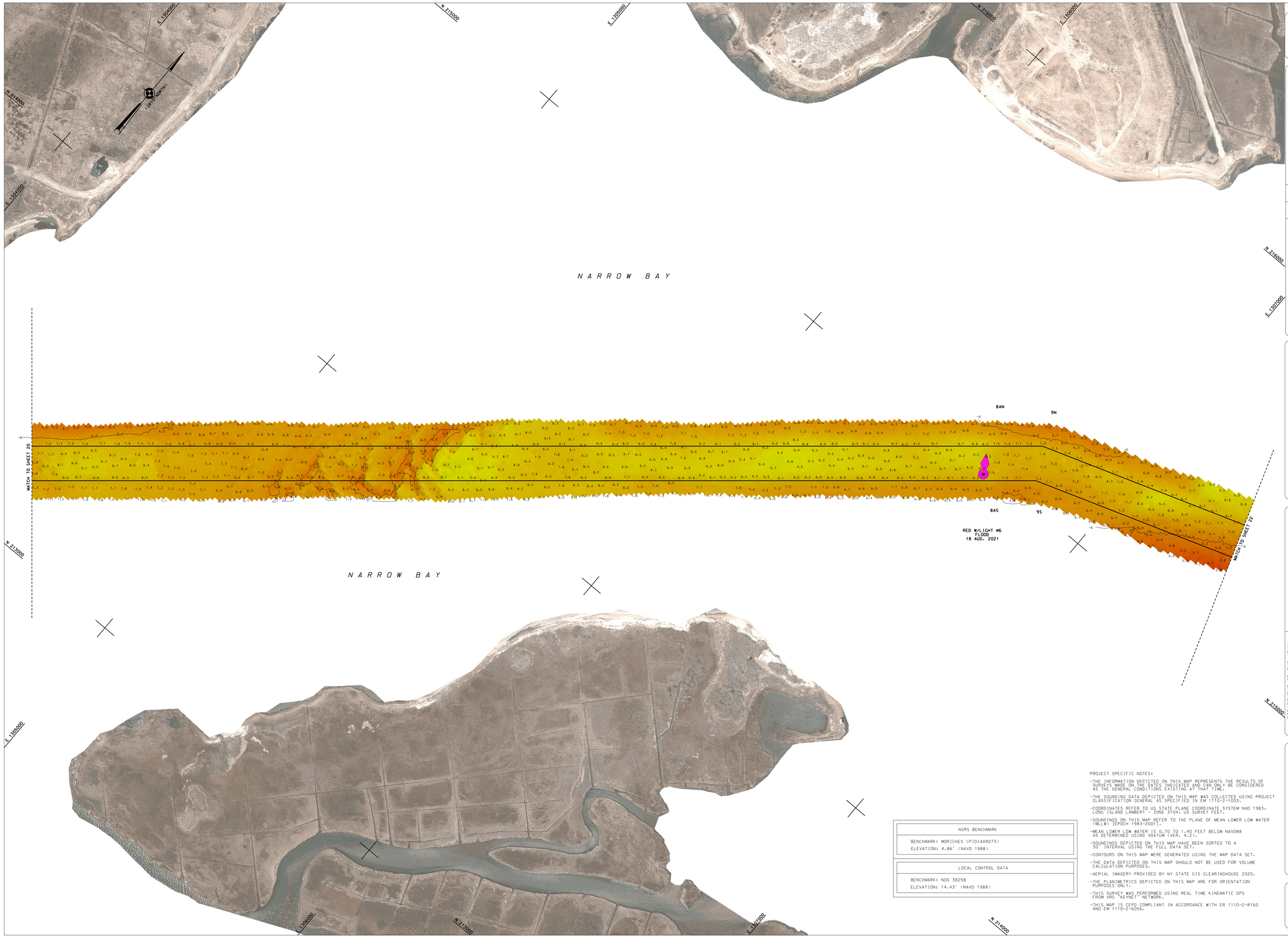
VH-120

SHEET 20 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY



US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING PLLC
2224 Kellum Hill Rd.
Saint Helena, N.Y. 10509
(845) 849-2222
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD SURVEYING
APPROVED: M. FORTE — DATA PROCESSING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHY
APPROVED: J. MRAZ — CHIEF, SURVEY BRANCH
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

NSRS BENCHMARK

BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA

BENCHMARK: NOS 3825B
ELEVATION: 14.43' (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 0.7 TO 1.4Q FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF MASTIC BEACH, N.Y.
CONDITION SURVEY

VH-121

SHEET 21 OF 55

REQ NO./FILE NO.: 5082

REG NO./FILE NO.: 5082

U. S. ARMY

CORPS OF ENGINEERS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF FORGE POINT, N.Y.

CONDITION SURVEY

SHEET 22 OF 55

VH-122

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:

DATES OF SURVEY:
10 AUG. - 01 OCT. 2021

REG NO./FILE NO.: 5082

RESOURCE SURVEYING, PLLC
2429 Avenue of the Rts.
Bellmore, NY 11710
(516) 404-7311
www.resourcesurveyingpllc.com

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

OPERATIONS DIVISION
SURVEY SECTION
GENAN-OP-S

APPROVED: D.A. ROGERS — PUBLIC AFFAIRS/IMPACT

APPROVED: M. FORTE — CHIEF, PLANNING, PROGRAMS, PROJECTS MGMT.

APPROVED: P. BHADURI — CHIEF, ENGINEERING BRANCH

APPROVED: J. MRAZ — CHIEF, OPERATIONS DIVISION

DATE: 12 NOV. 2021

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.
- THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING PROJECT CLASSIFICATION GENERAL AS 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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A .30' 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 NY STATE GIS CLEARINGHOUSE 2020.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

LOCAL CONTROL DATA
BENCHMARK: NOS 38258 ELEVATION: 14.43' (NAVD 1988) BENCHMARK: ARESKONK CREEK ELEVATION: 3.92' (NAVD 1988)

NOAA BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

RED NUN #8
FLOOD
18 AUG. 2021

GREEN CAN #7
FLOOD
18 AUG. 2021

MATCH TO SHEET 23

MATCH TO SHEET 21

NARROW BAY

NARROW BAY

N 216000
N 217000
E 191000
E 192000
E 193000
E 194000
E 195000

(GRID NORTH)

CORPS OF ENGINEERS

U. S. ARMY

CORPS OF ENGINEERS

U. S. ARMY

N 217000
E 1311000
N 216000
E 1312000
N 215000
E 1313000
N 218000
E 1314000

(GRID NORTH)

MATCH TO SHEET 22

N A R R O W B A Y

GREEN W/LIGHT #9
FLOOD
19 AUG. 2021

10N

10S

MATCH TO SHEET 24

N A R R O W B A Y

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: ARESKONK CREEK
ELEVATION: 3.92' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING PLLC
2228 Kellum Hill Rd.
Saint Helena, N.Y. 11959
(631) 834-1313
www.rogerssurveying.com

SCALE:
ONE INCH = 100 FEET

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. RODERS — FIELD SURVEYOR
APPROVED: M. FORTE — CHIEF, ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CHIEF SURVEYOR
APPROVED: J.J. MRAZ — CHIEF, SURVEY BRANCH
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY. N.Y.
VICINITY OF FORGE POINT. N.Y.
CONDITION SURVEY

VH-123

SHEET 23 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY



E 1314000

N 221000

N 222000

E 1315000

N 220000

E 1316000

N 221000

E 1314000

N 218000

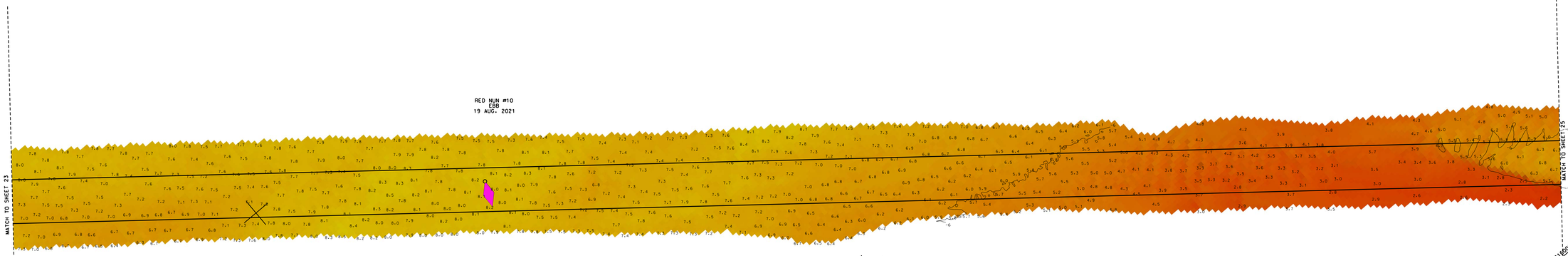
E 1315000

N 219000

E 1316000

N 220000

MORICHES BAY



MORICHES BAY

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: ARESKONK CREEK
ELEVATION: 3.92' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING, PLLC
Stony Brook, N.Y. 11930
(516) 428-7310
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CHIEF CARTOGRAPHER
APPROVED: J. MRAZ — CHIEF, BRANCH OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF FORGE POINT, N.Y.
CONDITION SURVEY

VH-124

SHEET 24 OF 55

CORPS OF ENGINEERS

U. S. ARMY

E 1315000 N 2220000 N 2230000 E 1316000 N 2240000 E 1317000

(GRID NORTH)

MORICHES BAY

GREEN CAN #11
FLOOD
19 AUG. 2021

RED W/LIGHT #12
FLOOD
19 AUG. 2021

11N

11S1

11S2

MATCH TO SHEET 24

MATCH TO SHEET 26

E 1316000 N 2210000

MORICHES BAY

E 1317000 N 2210000 E 1318000 N 2220000 E 1319000 N 2230000

E 1318000 N 2240000 E 1319000

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: ARESKONK CREEK
ELEVATION: 3.92' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING, PLLC
Land Surveyors
Staten Island, N.Y. 10309
(718) 442-7555
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

RED NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER

APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR — CHIEF CARTOGRAPHER

APPROVED: J. MRAZ — CHIEF, SURVEY SECTION

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF FORGE POINT, N.Y.

CONDITION SURVEY

VH-125

SHEET 25 OF 55

REQ NO./FILE NO.:5082

CORPS OF ENGINEERS

U. S. ARMY

N 225000

E 1318000

E 1319000

E 1320000

E 1321000

(GRID NORTH)

MORICHES BAY

N 224000

E 1318000

MATCH TO SHEET 25

MATCH TO SHEET 27

RED NUN #14
FLOOD
20 AUG. 2021

MORICHES BAY

N 223000

E 1318000

E 1320000

E 1321000

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: ARESKONK CREEK ELEVATION: 3.92' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING PLLC
2224 Vetter Rd NE
Saint Petersburg, FL 33716
(727) 537-0777
www.rogerssurveying.net

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD SURVEYMANAGER
APPROVED: M. FORTE — CHIEF, ENGINEERING DIVISION
APPROVED: P. BHADUR — CHIEF SURVEYMANAGER
APPROVED: J. MRAZ — CHIEF, BRANCH OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF CENTER MORICHES N.Y.

CONDITION SURVEY

VH-126

SHEET 26 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

E 1323000

E 1324000

N 226000

E 1325000

(GRID NORTH)

N 225000

MORICHES BAY

GREEN W/LIGHT #15
EBB
20 AUG. 2021

12N

MATCH TO SHEET 28

MATCH TO SHEET 26

12S

N 224000

MORICHES BAY

N 223000

E 1322000

E 1323000

E 1324000

E 1325000

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: ARESKONK CREEK
ELEVATION: 3.92' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING PLLC
2020 Vetlon Hill Rd.
Saint Helena, N.Y. 10509
(914) 522-2222
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — NYS LICENSED PROFESSIONAL ENGINEER
APPROVED: P. BHADUR — CHIEF CARTOGRAPHER
APPROVED: J. MRAZ — CHIEF, DIVISION OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

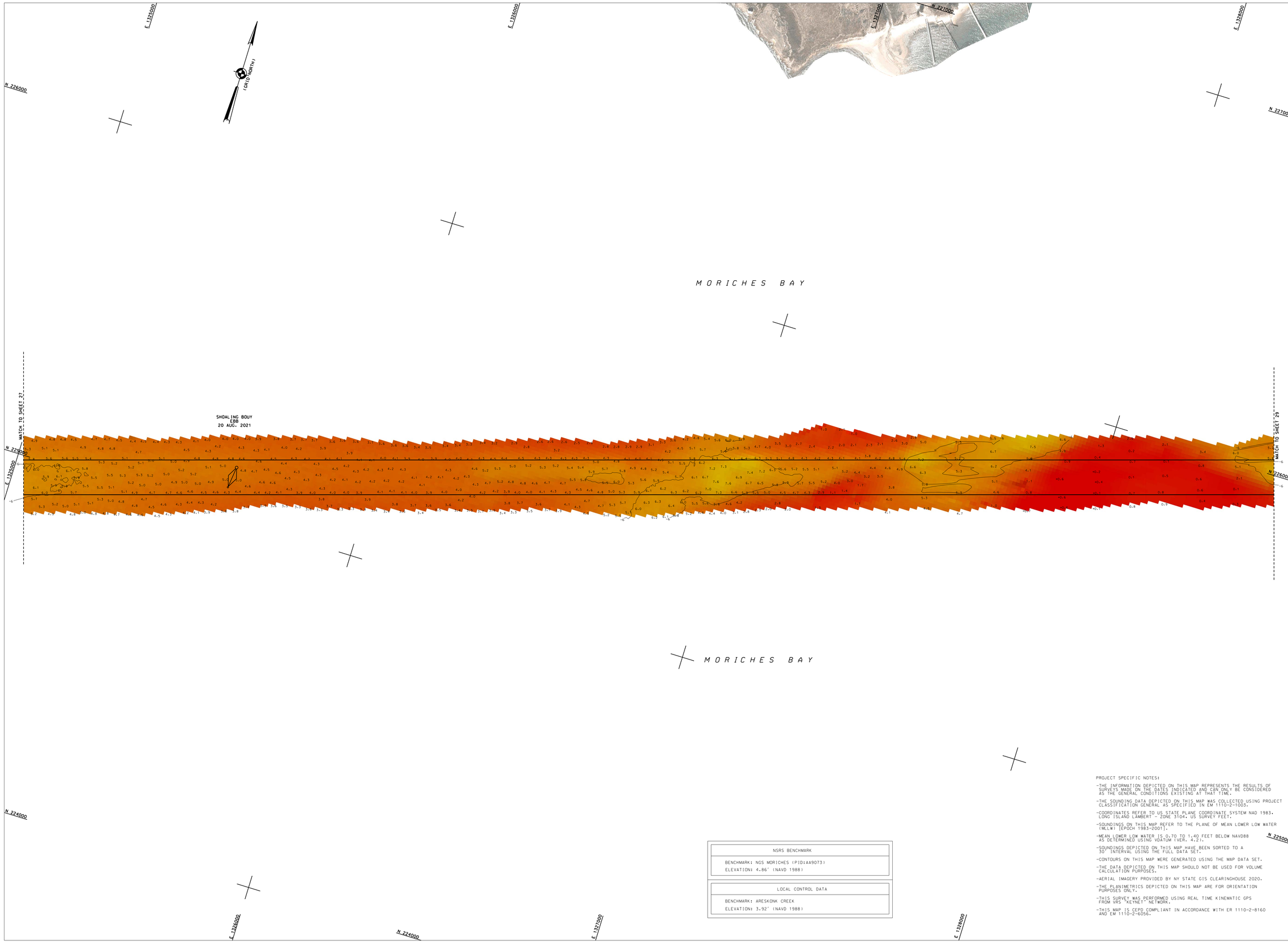
CONDITION SURVEY

VH-127

SHEET 27 OF 55

CORPS OF ENGINEERS

U. S. ARMY



US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
2429 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 447-7511
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

VH-128

SHEET 28 OF 55

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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

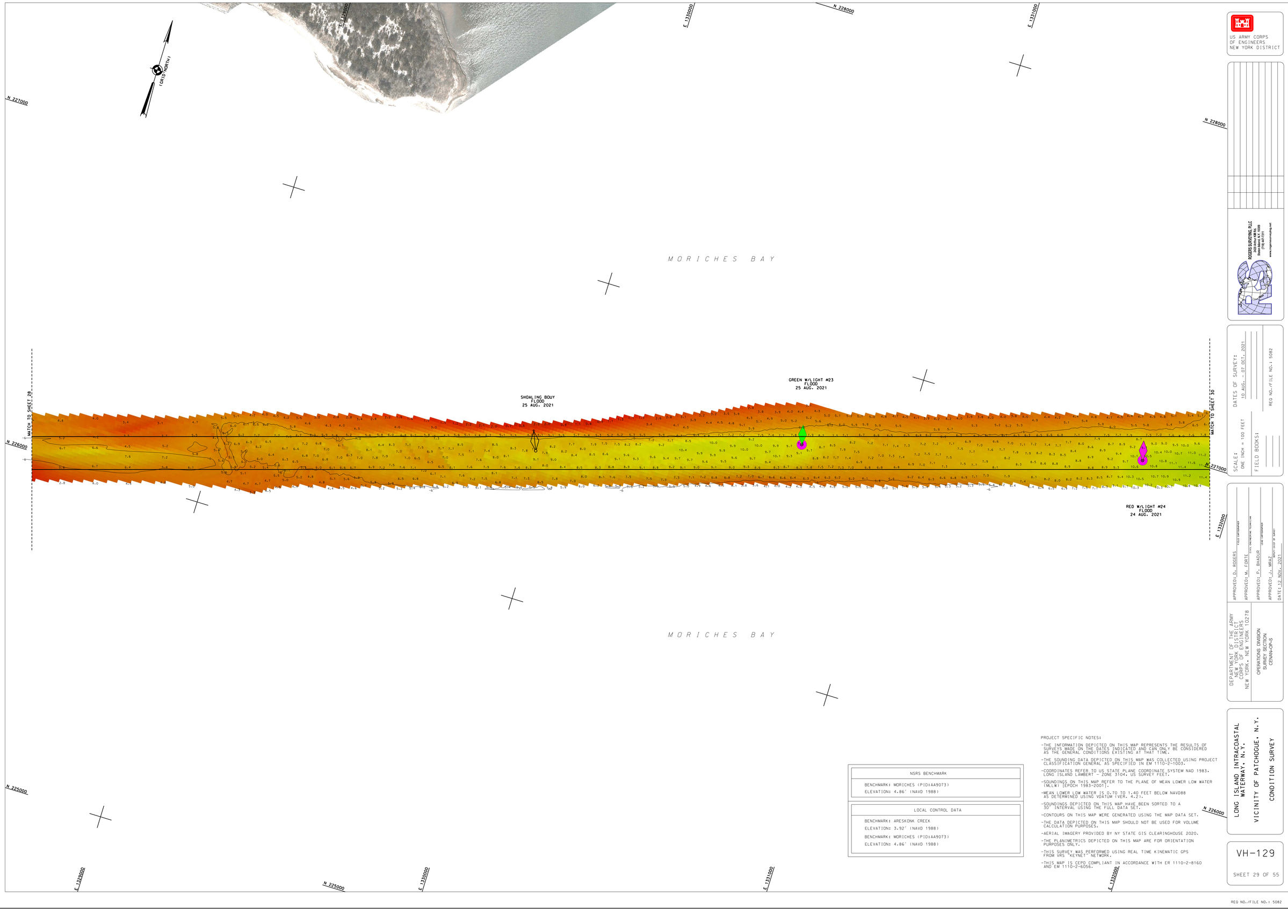
NSRS BENCHMARK
BENCHMARK: NGS MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: ARESKONK CREEK ELEVATION: 3.92' (NAVD 1988)

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY



NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86′ (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: ARESKONK CREEK
ELEVATION: 3.92′ (NAVD 1988)
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86′ (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP WAVE BEEN SORTED TO A 50' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING PLLC
2020 Vista Cliff Rd.
Staten Island, N.Y. 10306
(718) 815-1111
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD SURVEYMANAGER
APPROVED: M. FORTE — CHIEF, ENGINEERING DIVISION
APPROVED: P. BHADUR — CHIEF SURVEYMANAGER
APPROVED: J. MIAZ — CHIEF, SURVEY BRANCH
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

VH-129

SHEET 29 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

E 1332000

E 1333000

N 229000

E 1334000

MORICHES BAY

(GRID NORTH)

N 228000

N 229000

MATCH TO SHEET 29

MATCH TO SHEET 31

N 227000

N 228000

E 1332000

MORICHES BAY

N 227000

N 226000

E 1333000

E 1334000

E 1335000

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING PLLC
2228 Jerusalem Ave.
Bellmore, N.Y. 11710
(516) 679-1777
www.rogerssurveying.net

SCALE:
ONE INCH = 100 FEET

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD SURVEYMANAGER

APPROVED: M. FORTE — CHIEF, ENGINEERING DIVISION

APPROVED: P. BHADUR — CHIEF SURVEYMANAGER

APPROVED: J. MRAZ — CHIEF, DISTRICT SURVEY OF SURVEY

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

VH-130

SHEET 30 OF 55

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (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.

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-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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP WAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

E 1336000

N 230000

E 1337000

E 1338000

(GRID NORTH)

N 229000

N 230000

MORICHES BAY

13N

MATCH TO SHEET 30

MATCH TO SHEET 32

13S

SHOALING BOUY
EBB
24 AUG. 2021

N 228000

N 229000

E 1339000

MORICHES BAY

N 227000

E 1336000

N 227000

E 1337000

E 1338000

E 1339000

N 228000

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

PROJECT SPECIFIC NOTES:

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US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
2420 Arthur Kill Rd.
Staten Island, NY 10309
(718) 447-7311
www.rogerssurveying.net

SCALE:
ONE INCH = 100 FEET

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD SURVEYOR

APPROVED: M. FORTE — CHIEF ENGINEERING TECHNICIAN

APPROVED: P. BHADUR — CHIEF SURVEYOR

APPROVED: J. MIAZ — CHIEF, SURVEY BRANCH

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

VH-131

SHEET 31 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

E 1339000

E 1340000

N 231000

E 1341000

E 1342000

N 231000

N 230000

(GRID NORTH)

MORICHES BAY

MATCH TO SHEET 31

RED W/LIGHT #30
EBB
24 AUG. 2021

MATCH TO SHEET 33

MORICHES BAY

N 229000

N 229000

N 228000

N 228000

E 1339000

E 1340000

E 1341000

E 1342000

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (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.

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-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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING PLLC
2420 Arthur Kill Rd.
Staten Island, NY 10309
(718) 447-3131
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD SURVEILLANCE
APPROVED: M. FORTE — CHIEF, ENGINEERING DIVISION
APPROVED: P. BHADUR — CHIEF SURVEILLANCE
APPROVED: J. MRAZ — CHIEF, SURVEY GROUP
DATE: 12 NOV. 2021

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

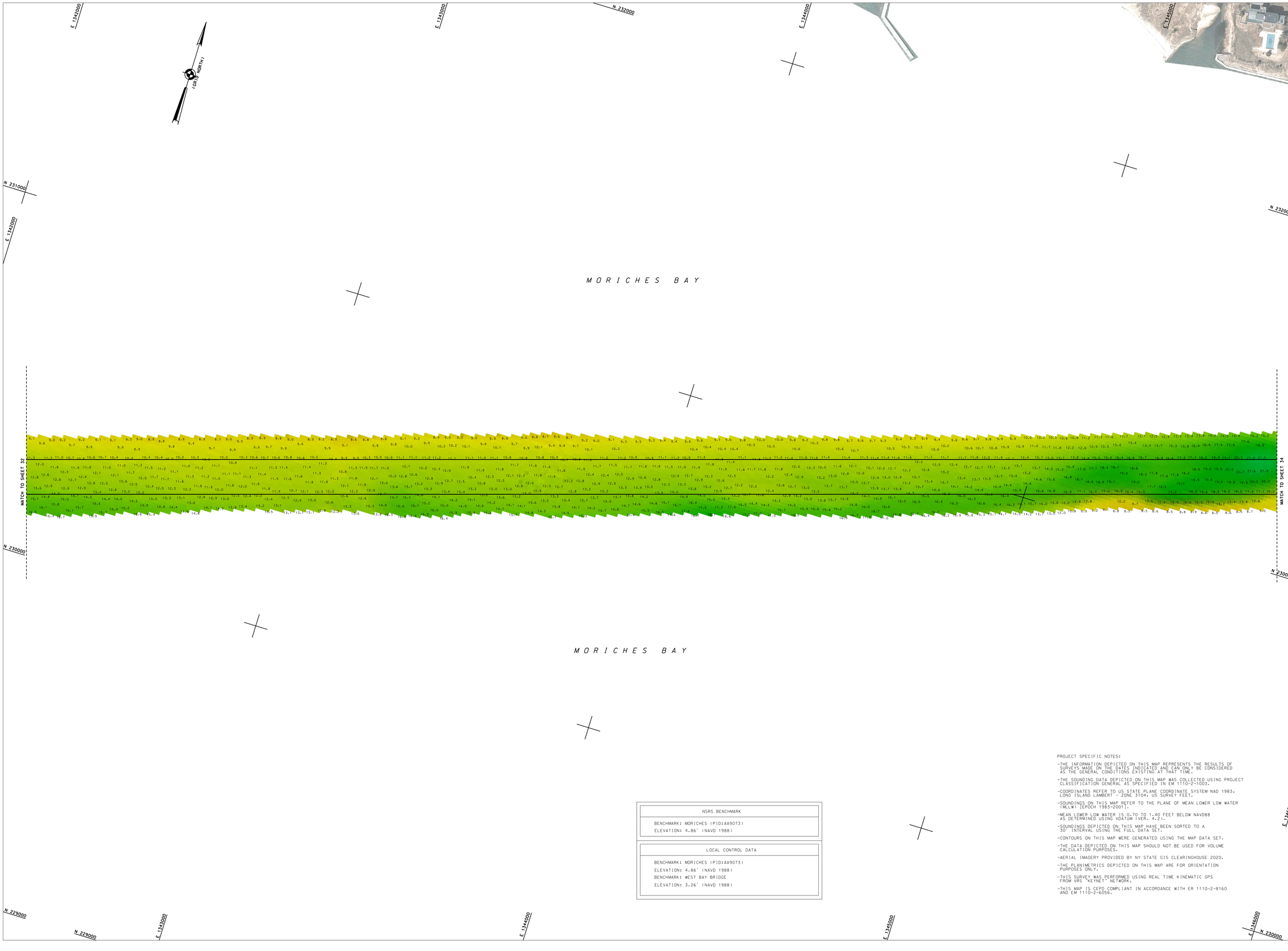
OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

VH-132

SHEET 32 OF 55

REQ NO./FILE NO.: 5082



NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988) BENCHMARK: WEST BAY BRIDGE ELEVATION: 3.26' (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.
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- THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
- AERIAL IMAGERY PROVIDED BY NY STATE GIS CLEARINGHOUSE 2020.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.
- 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

ROGERS SURVEYING, PLLC
2420 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 447-7311
www.rogerssurveying.net

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:

DATES OF SURVEY: 10 AUG. - 07 OCT. 2021

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

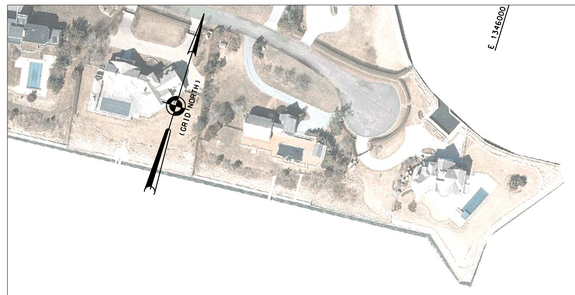
VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

VH-133

CORPS OF ENGINEERS

U. S. ARMY



E 1346000

N 233000

E 1347000

E 1348000

N 232000

MORICHES BAY

GREEN W/LIGHT #31
EBB
25 AUG. 2021

GREEN CAN #33
EBB
25 AUG. 2021

MATCH TO SHEET 33

MATCH TO SHEET 35

N 231000

N 232000

N 233000

E 1348000

MORICHES BAY

E 1346000

E 1347000

E 1348000

E 1349000

N 231000

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: WEST BAY BRIDGE ELEVATION: 3.26' (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.

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-AERIAL IMAGERY PROVIDED BY NY STATE GIS CLEARINGHOUSE 2020.

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-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

ROGERS SURVEYING PLLC
2020 Vetlin Hill Rd.
Saint Helena, N.Y. 10509
(914) 522-0222
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS FIELD SURVEYMANAGER
APPROVED: M. FORTE CHIEF, ENGINEERING DIVISION
APPROVED: P. BHADUR CHIEF SURVEYMANAGER
APPROVED: J. MRAZ CHIEF, DISTRICT SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL
WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

VH-134

SHEET 34 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY



E 1349000

E 1350000

E 1351000

E 1352000

N 234000

N 233000

N 232000

(GRID NORTH)

MORICHES BAY

MATCH TO SHEET 34

MATCH TO SHEET 36

1451

NSRS BENCHMARK

BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA

BENCHMARK: WEST BAY BRIDGE
ELEVATION: 3.26' (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.

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-SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) (EPOCH 1983-2001).

-MEAN LOWER LOW WATER IS 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS 'KEYNET' NETWORK.

-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

ROGERS SURVEYING, P.L.C.
2329 Jericho Tpk Rd.
Staten Island, N.Y. 10309
(718) 966-4444
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.:

APPROVED: D. ROGERS — FIELD SUPERVISOR

APPROVED: M. FORTE — CHIEF, ENGINEERING DIVISION

APPROVED: P. BHADGR — CHIEF, SURVEY BRANCH

APPROVED: J. MRAZ — CHIEF, DISTRICT SURVEY

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

VH-135

SHEET 35 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

E 1352000

E 1354000

E 1356000

N 234000

GRID NORTH

MORICHES BAY

RED NUN #34
EBB
25 AUG. 2021

GREEN CAN #35
EBB
25 AUG. 2021

14S

1452

MATCH TO SHEET 37

MATCH TO SHEET 35

N 233000

N 232000

MORICHES BAY

NSRS BENCHMARK

BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA

BENCHMARK: WEST BAY BRIDGE
ELEVATION: 3.26' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING PLLC
2424 Arbor Hill Rd.
Saint Helena, NY 13599
(631) 988-2775
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD SURVEYOR/MGR
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CHIEF SURVEYOR
APPROVED: J. MRAZ — CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL
WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

VH-136

SHEET 36 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

E 1356000

E 1357000

E 1358000

E 1359000

N 233000

N 232000

N 231000

E 1355000

E 1328000

E 1329000

MATCH TO SHEET 36

MATCH TO SHEET 38

(GRID NORTH)

RED NUN #36
EBB
25 AUG. 2021

GREEN W/LIGHT #37
FLOOD
26 AUG. 2021

15N

15S

MORICHES BAY

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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS 'KEYNET' NETWORK.

-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: WEST BAY BRIDGE
ELEVATION: 3.26' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING PLLC
2229 Motor Hill Rd.
Slate Hill, N.Y. 10930
845-355-1111
www.rogerssurveying.com

SCALE:
ONE INCH = 100 FEET

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

FIELD BOOKS:

RED NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD SURVEYOR
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD SURVEYOR
APPROVED: J. MRAZ — BRANCH CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL
WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

VH-137

SHEET 37 OF 55

RED NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: WEST BAY BRIDGE
ELEVATION: 3.26' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

GREEN DAY BOARD #3
FLOOD
26 AUG. 2021

GREEN DAY BOARD #5
FLOOD
26 AUG. 2021

MATCH TO SHEET 37

MATCH TO SHEET 39

N 234000

N 232000

E 1360000

E 1361000

E 1362000

E 1363000

(GRID North)

16S

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING PLLC
2420 Arbor Hill Rd.
Stony Brook, NY 11790
(631) 689-7272
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

REQ NO./FILE NO.: 5082

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: D. ROGERS — FIELD SURVEYOR

APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR — CHIEF SURVEYOR

APPROVED: J. MRAZ — CHIEF, SURVEY SECTION

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL
WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

VH-138

SHEET 38 OF 55

REQ NO./FILE NO.: 5082

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 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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: WEST BAY BRIDGE
ELEVATION: 3.26' (NAVD 1988)

QUANTUCK BAY

QUANTUCK CANAL

DAY BOARD W/LIGHT #7
FLOOD
26 AUG. 2021

(GRID NORTH)

MATCH TO SHEET 38

MATCH TO SHEET 40

17N 18N 19N 20N

17S 18S 19S 20S

N 236000 N 235000 N 234000 N 233000

E 1365000 E 1366000 E 1367000 E 1368000 E 1369000

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING PLLC
2253 Middle Road
Sistan Island, N.Y. 11709
(631) 834-0313
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5062

APPROVED: D. ROGERS — FIELD CARTOGRAPHER

APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR — CHIEF CARTOGRAPHER

APPROVED: J. MRAZ — BRANCH CHIEF OF SURVEY

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS-S

LONG ISLAND INTRACOASTAL
WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

VH-139

SHEET 39 OF 55

REQ NO./FILE NO.:

CORPS OF ENGINEERS

U. S. ARMY

E 1567000

E 1568000

N 237000

E 1566000

(GRID NORTH)

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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: WEST BAY BRIDGE
ELEVATION: 3.26' (NAVD 1988)

QUANTUCK BAY

21S

21N

21S2

21S1

21S1

MATCH TO SHEET 41

RED W/LIGHT #10
FLOOD
30 AUG. 2021

GREEN CAN #9
FLOOD
30 AUG. 2021

MATCH TO SHEET 39

N 236000

N 235000

E 1566000

E 1568000

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING PLLC
2425 Arthur Kill Rd.
Staten Island, NY 10309
(718) 447-7311
www.rogerssurveying.net

SCALE:
ONE INCH = 100 FEET

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

FIELD BOOKS:

REQ NO./FILE NO.: 5082

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

APPROVED: D. RODERS
FIELD SUPERVISOR

APPROVED: M. FORTE
CHIEF, TECHNICAL SECTION

APPROVED: P. BHABUR
CHIEF, SURVEY SECTION

APPROVED: J. MRAZ
CHIEF, OPERATIONS DIVISION

DATE: 12 NOV. 2021
DATE OF SURVEY

LONG ISLAND INTRACOASTAL
WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

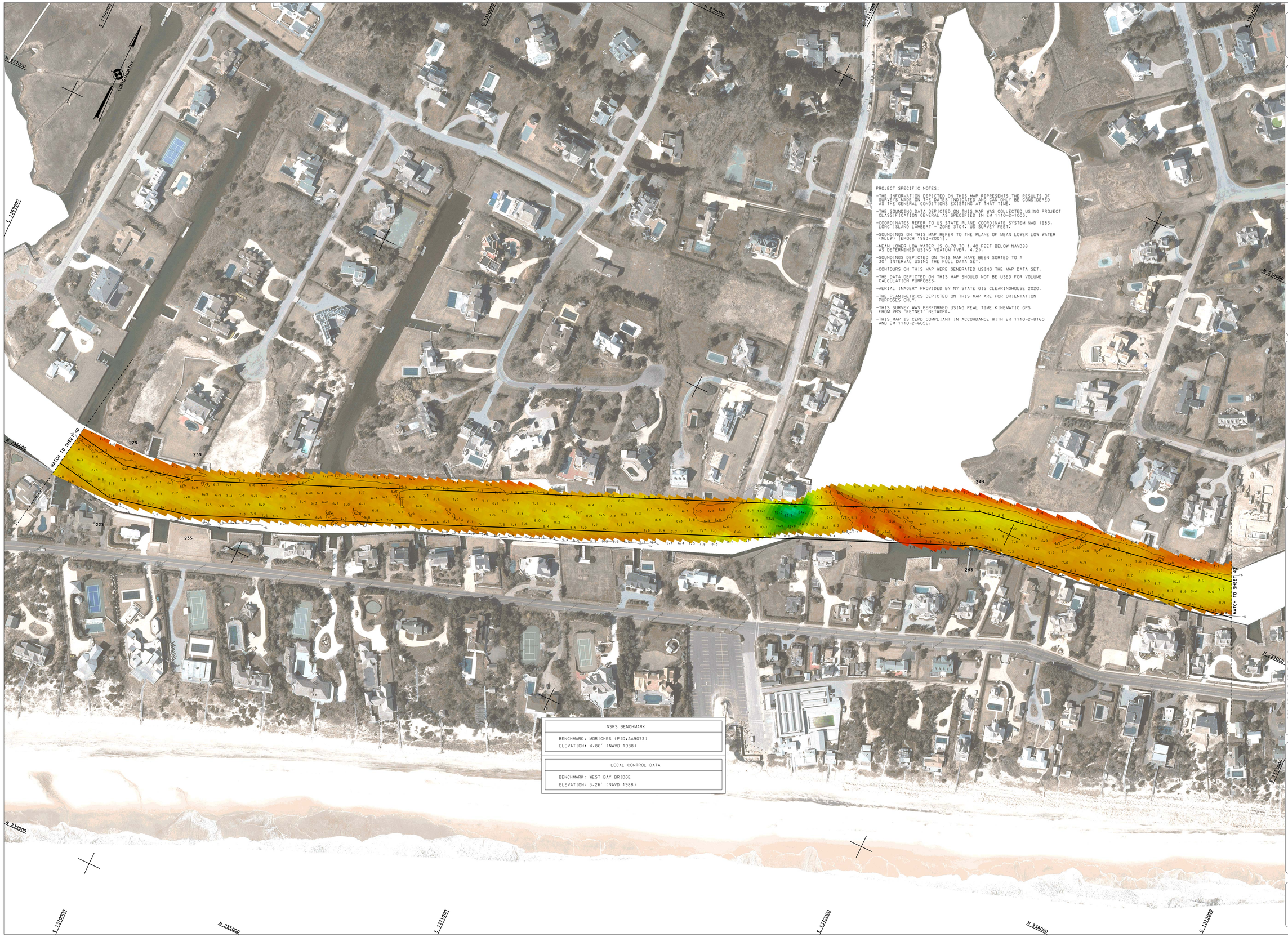
VH-140

SHEET 40 OF 55

REQ NO./FILE NO.: 5082

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 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 0.7O TO 1.4O FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 50' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: WEST BAY BRIDGE ELEVATION: 3.26' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
Dennis Rogers, PLS
Staten Island, N.Y. 10309
(718) 812-9111
www.rogerssurveyingny.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO.:/FILE NO.: 5082

APPROVED: D. RODGERS — FIELD SURVEYANCE
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHABUR — CHIEF SURVEYANCE
APPROVED: J. MRAZ — BRANCH CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-HS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

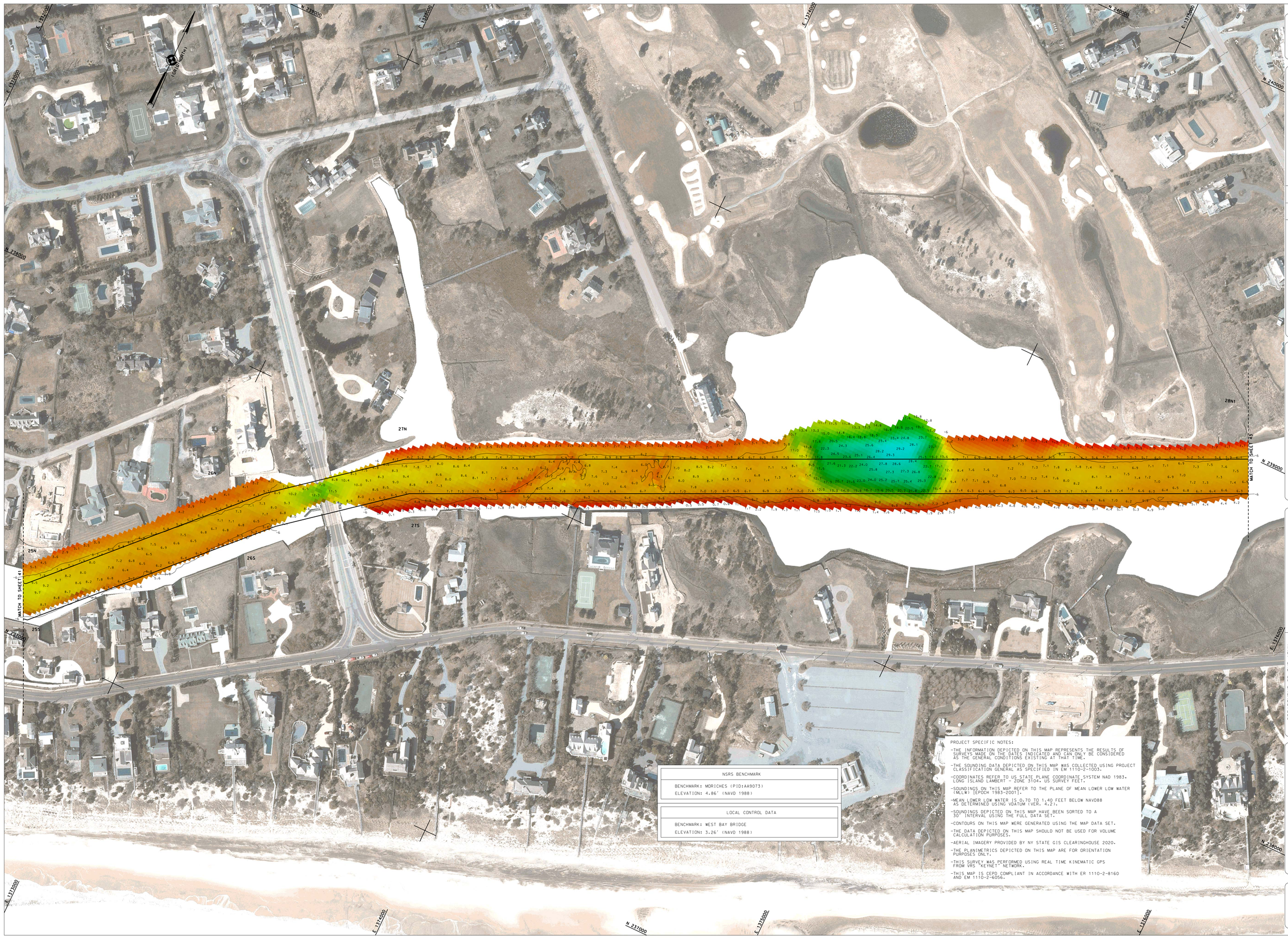
VH-141

SHEET 41 OF 55

REQ NO./FILE NO.:

CORPS OF ENGINEERS

U. S. ARMY



NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: WEST BAY BRIDGE
ELEVATION: 3.26' (NAVD 1988)

PROJECT SPECIFIC NOTES:

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-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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING PLLC
2422 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 317-7927
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD SURVEILLANCE
APPROVED: M. FORTE — CHIEF, ENGINEERING TECHNICIAN
APPROVED: P. BHADURI — CHIEF SURVEILLANCE
APPROVED: J. MRAZ — CHIEF, FIELD OPERATIONS
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL
WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

VH-142

SHEET 42 OF 55

REQ NO./FILE NO.:

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 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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' INTERVAL USING THE FULL DATA SET.

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

-AERIAL IMAGERY PROVIDED BY NY STATE GIS CLEARINGHOUSE 2020.

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-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: WEST BAY BRIDGE
ELEVATION: 3.26' (NAVD 1988)

GREEN CAN #1
FLOOD
31 AUG. 2021

RED DAY BOARD
W/LIGHT #2
FLOOD
30 AUG. 2021

DAY BOARD W/LIGHT #12
EBB
01 SEP. 2021

29N

29S

28N1

28N2

28S

MATCH TO SHEET 42

MATCH TO SHEET 44

SHINNECOCK BAY

N 239000

N 240000

N 241000

E 1375000

E 1376000

E 1377000

E 1378000

LOCATION MAP

ROGERS SURVEYING, PLLC
Scott D. Rogers, P.L.S.
Sidney, New York 13838
(607) 563-2313
www.rogerssurveying.net

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

APPROVED: D. ROGERS — FIELD SURVEYOR
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — CHIEF SURVEYOR
APPROVED: J. MIRAZ — CHIEF, SURVEY SECTION
DATE: 12 NOV. 2021

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

VH-143

SHEET 43 OF 55

REQ NO./FILE NO.:

RED NO./FILE NO.:

U. S. ARMY

CORPS OF ENGINEERS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

VH-144

SHEET 44 OF 55

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

OPERATIONS DIVISION
SURVEY BRANCH
GENAA-OP-S

APPROVED: D.A. ROGERS
FIELD SURVEYOR

APPROVED: M. FORTE
CHIEF, SURVEY BRANCH

APPROVED: P. BHADURI
CHIEF, OPERATIONS DIVISION

APPROVED: J. MRAZ
CHIEF, ENGINEERING DIVISION

DATE: 12 NOV. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

RED NO./FILE NO.: 5082

ROGERS SURVEYING, PLLC
2424 Adrian Rd.
Bellmore, New York 11710
(718) 447-7211
www.rogerssurveyingplcom

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

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 COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983. LONG ISLAND LAMBERT – ZONE 3104, US SURVEY FEET.
-MEAN LOWER LOW WATER IS 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).
-SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) (EPOCH 1983-2001).
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 50 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 NY STATE GIS CLEARINGHOUSE 2020.
-THE FLAMINGTRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM NYS "KEYNET" NETWORK.
-THIS MAP IS CFPO COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: WEST BAY BRIDGE
BENCHMARK: 3.26' (NAVD 1988)
ELEVATION: PINE NECK POINT
ELEVATION: 3.86' (NAVD 1988)

N 240000
E 1378000
N 242000
E 1380000
N 244000

SHINNECOCK BAY

RED NUN #4
FLOOD
31 AUG. 2021

GREEN CAN #3
FLOOD
31 AUG. 2021

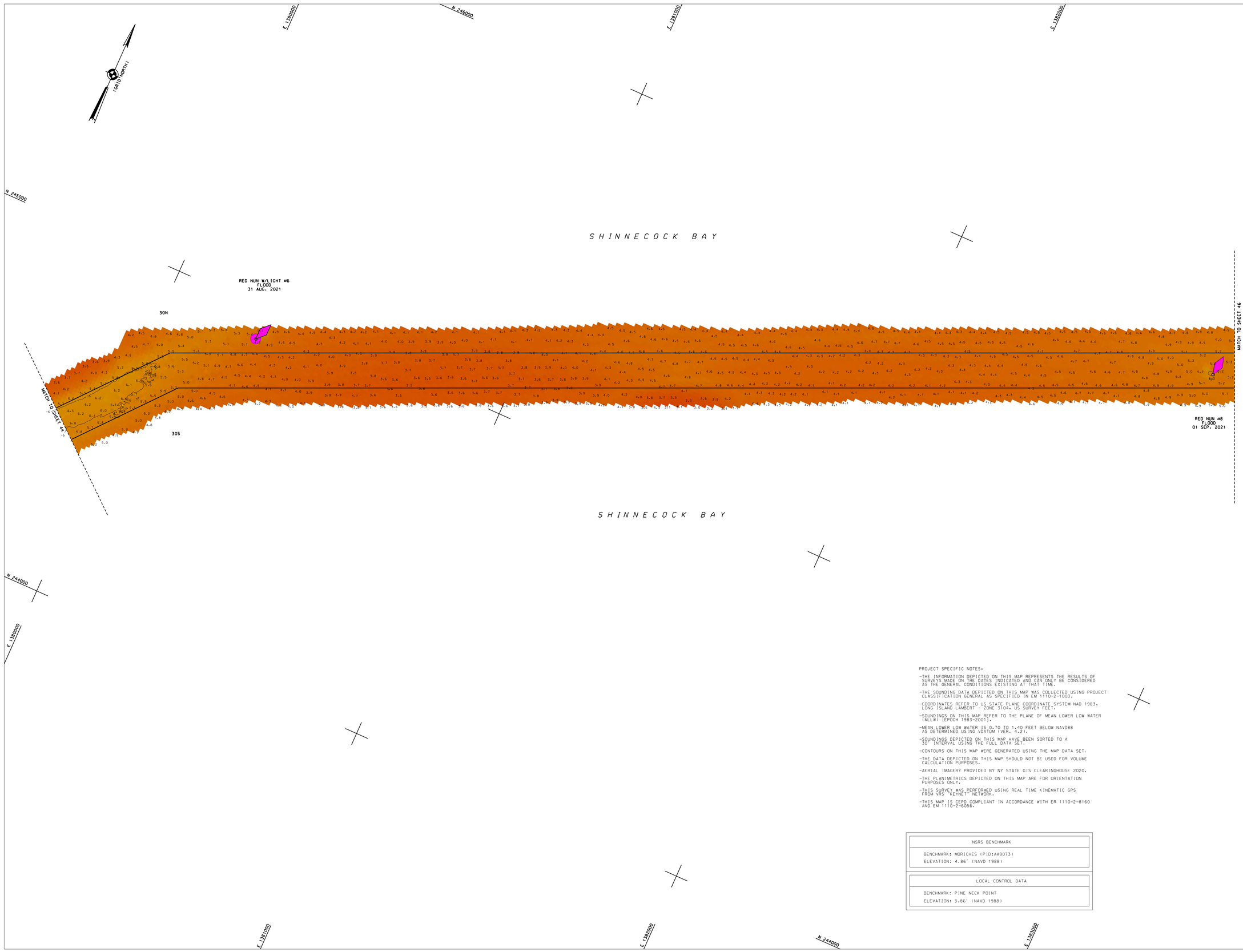
MATCH TO SHEET 43
MATCH TO SHEET 45

(GRID NORTH)

CORPS OF ENGINEERS

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 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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: PINE NECK POINT
ELEVATION: 3.86' (NAVD 1988)

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING PLLC
2228 Kellum Hill Rd.
Saint Helena, KY 40509
(502) 863-1777
www.rogerssurveying.net

SCALE: ONE INCH = 100 FEET

DATES OF SURVEY: 10 AUG. - 01 OCT. 2021

FIELD BOOKS:

REQ NO./FILE NO.: 5982

APPROVED: D. ROGERS FIELD SURVEYANCE

APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN

APPROVED: P. BHADUR LEAD SURVEYANCE

APPROVED: J. MRAZ CHIEF, CHIEF OF SURVEY

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-HS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

VH-145

SHEET 45 OF 55

REQ NO./FILE NO.:

CORPS OF ENGINEERS

U. S. ARMY

N 247000

E 1383000

E 1384000

N 248000

E 1385000

(GRID NORTH)

SHINNECOCK BAY

N 246000

MATCH TO SHEET 45

MATCH TO SHEET 47

GREEN CAN W/LIGHT #9
EBB
01 SEP. 2021

E 1383000

N 245000

SHINNECOCK BAY

E 1384000

N 245000

E 1385000

E 1385000

N 247000

N 248000

E 1386000

N 246000

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: PINE NECK POINT
ELEVATION: 3.86' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING PLLC
2224 Kellum Hill Rd.
Saint Helena, KY 40059
(502) 550-1111
www.rogerssurveying.net

SCALE: ONE INCH = 100 FEET

DATES OF SURVEY: 10 AUG. - 07 OCT. 2021

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS	FIELD CARTOGRAPHER
APPROVED: M. FORTE	CHIEF, ENGINEERING DIVISION
APPROVED: P. BHADUR	CHIEF CARTOGRAPHER
APPROVED: J. MIAZ	CHIEF, BRANCH OF SURVEY
DATE: 12 NOV. 2021	

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

VH-146

SHEET 46 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

(ON TD NORTH)

E. 1365000

E. 1372500

N. 249000

E. 1380000

N. 248000

SHINNECOCK BAY

MATCH TO SHEET 46

MATCH TO SHEET 48

N. 247000

E. 1365000

N. 241000

SHINNECOCK BAY

N. 248000

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: PINE NECK POINT ELEVATION: 3.86' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS 'KEYNET' NETWORK.

-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

ROGERS SURVEYING PLLC
2424 Veterans Highway
Islandia, NY 11749
(631) 232-2600
www.rogerssurveying.com

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD SURVEYING
APPROVED: M. FORTE — DATA PROCESSING TECHNICIAN
APPROVED: P. BHADUR — CHIEF CARTOGRAPHER
APPROVED: J. MRAZ — CHIEF, SURVEY SECTION
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

VH-147

SHEET 47 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

E 1389000 N 250000 E 1390000 E 1391000 N 251000

(GRID NORTH)

SHINNECOCK BAY

N 249000 E 1389000

MATCH TO SHEET 47

MATCH TO SHEET 49

SHINNECOCK BAY

N 248000

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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VPS 'KEYNET' NETWORK.

-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: PINE NECK POINT
ELEVATION: 3.86' (NAVD 1988)

E 1389000 E 1391000 N 248000 E 1392000

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

N 251000 E 1392000

ROGERS SURVEYING PLLC
2020 Vista Cliff Rd.
Staten Island, N.Y. 10306
(718) 815-1850
www.rogerssurveying.net

N 250000

SCALE: ONE INCH = 100 FEET

DATES OF SURVEY: 10 AUG. - 07 OCT. 2021

FIELD BOOKS:

REQ NO./FILE NO.: 5082

N 249000

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

APPROVED: D. ROGERS FIELD SURVEYANCE
APPROVED: M. FORTE CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR LEAD SURVEYANCE
APPROVED: J. MRAZ CHIEF, SURVEY SECTION
DATE: 12 NOV. 2021

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PINE NECK

CONDITION SURVEY

VH-148

SHEET 48 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

E 1392000 E 1393000 E 1394000 E 1395000

N 251000

GRID NORTH

TIANA BAY

31N

31S

MATCH TO SHEET 48

MATCH TO SHEET 50

GREEN CAN W/LIGHT #13
EBB
08 SEP. 2021

GREEN CAN #15
EBB
08 SEP. 2021

N 250000

SHINNECOCK BAY

N 249000

E 1392000 E 1393000 E 1394000 E 1395000

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
2020 Vista Del Mar
Staten Island, N.Y. 10309
(718) 815-1850
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS FIELD SURVEYMANAGER

APPROVED: M. FORTE CHIEF, ENGINEERING TECHNICIAN

APPROVED: P. BHADUR CHIEF SURVEYMANAGER

APPROVED: J. MRAZ CHIEF, SURVEY GROUP OF SURVEY

DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL
WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

VH-149

SHEET 49 OF 55

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: PINE NECK POINT
ELEVATION: 3.86' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

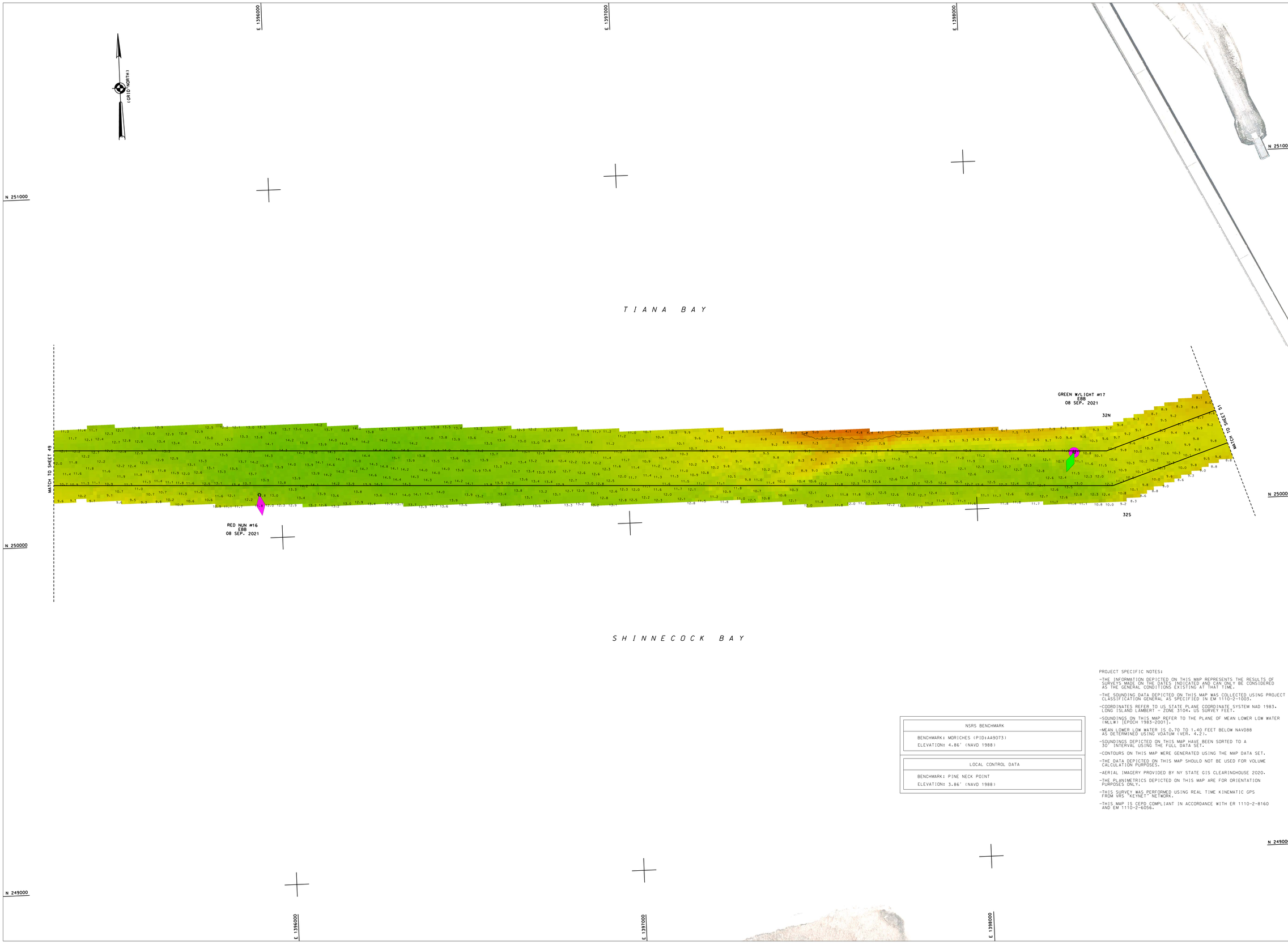
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY



NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: PINE NECK POINT
ELEVATION: 3.86' (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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.
- 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

ROGERS SURVEYING, PLLC
2429 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 447-7311
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

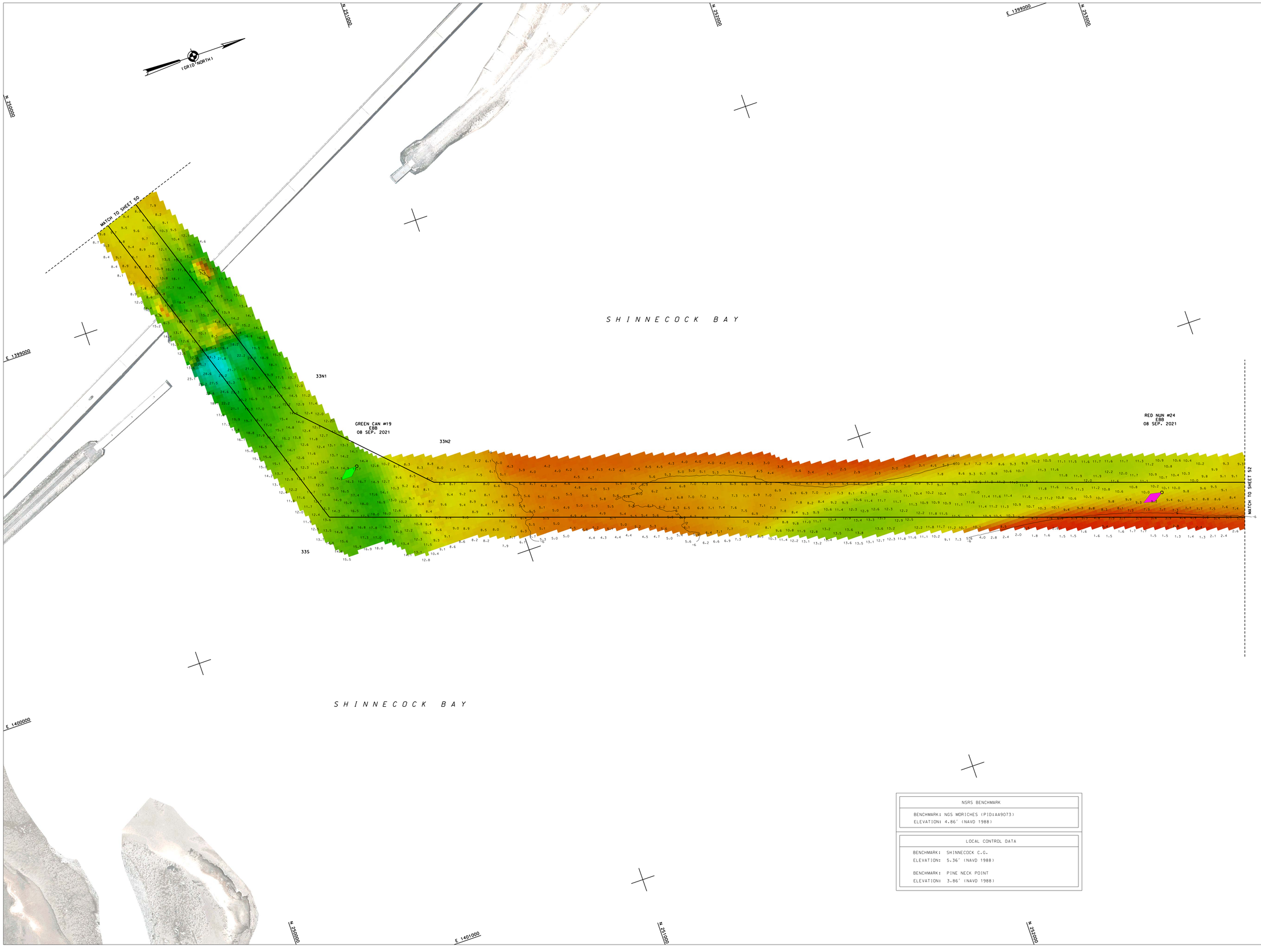
VH-150

SHEET 50 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY



NSRS BENCHMARK
BENCHMARK: NGS MORICHES (PID:AA9073) ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: SHINNECOCK C.G. ELEVATION: 5.36' (NAVD 1988) BENCHMARK: PINE NECK POINT ELEVATION: 3.86' (NAVD 1988)

US ARMY CORPS OF ENGINEERS NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
2420 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 447-2191
www.rogerssurveying.net

SCALE: ONE INCH = 100 FEET

DATES OF SURVEY: 10 AUG. - 07 OCT. 2021

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

VH-151

SHEET 51 OF 55

REQ NO./FILE NO.: 5082

CORPS OF ENGINEERS

U. S. ARMY

(GRID NORTH)

N 254000

N 255000

N 256000

E 1400000

E 1401000

E 1402000

S H I N N E C O C K B A Y

GREEN W/LIGHT #25
EBB
08 SEP. 2021

RED NUN #26
EBB
08 SEP. 2021

MATCH TO SHEET 51

MATCH TO SHEET 53

NSRS BENCHMARK

BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA

BENCHMARK: SHINNECOCK C.G.
ELEVATION: 5.36' (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 (MLLW1) [EPOCH 1983-2001].

-MEAN LOWER LOW WATER IS 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).

-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 20' 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 NY STATE GIS CLEARINGHOUSE 2020.

-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.

-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.

-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

ROGERS SURVEYING PLLC
2024 Vista Cliff Rd.
Staten Island, N.Y. 10306
(718) 815-1850
www.rogerssurveying.net

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD SURVEYMANAGER
APPROVED: M. FORTE — CHIEF, ENGINEERING DIVISION
APPROVED: P. BHADUR — CHIEF SURVEYMANAGER
APPROVED: J. MIAZ — CHIEF, DISTRICT SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

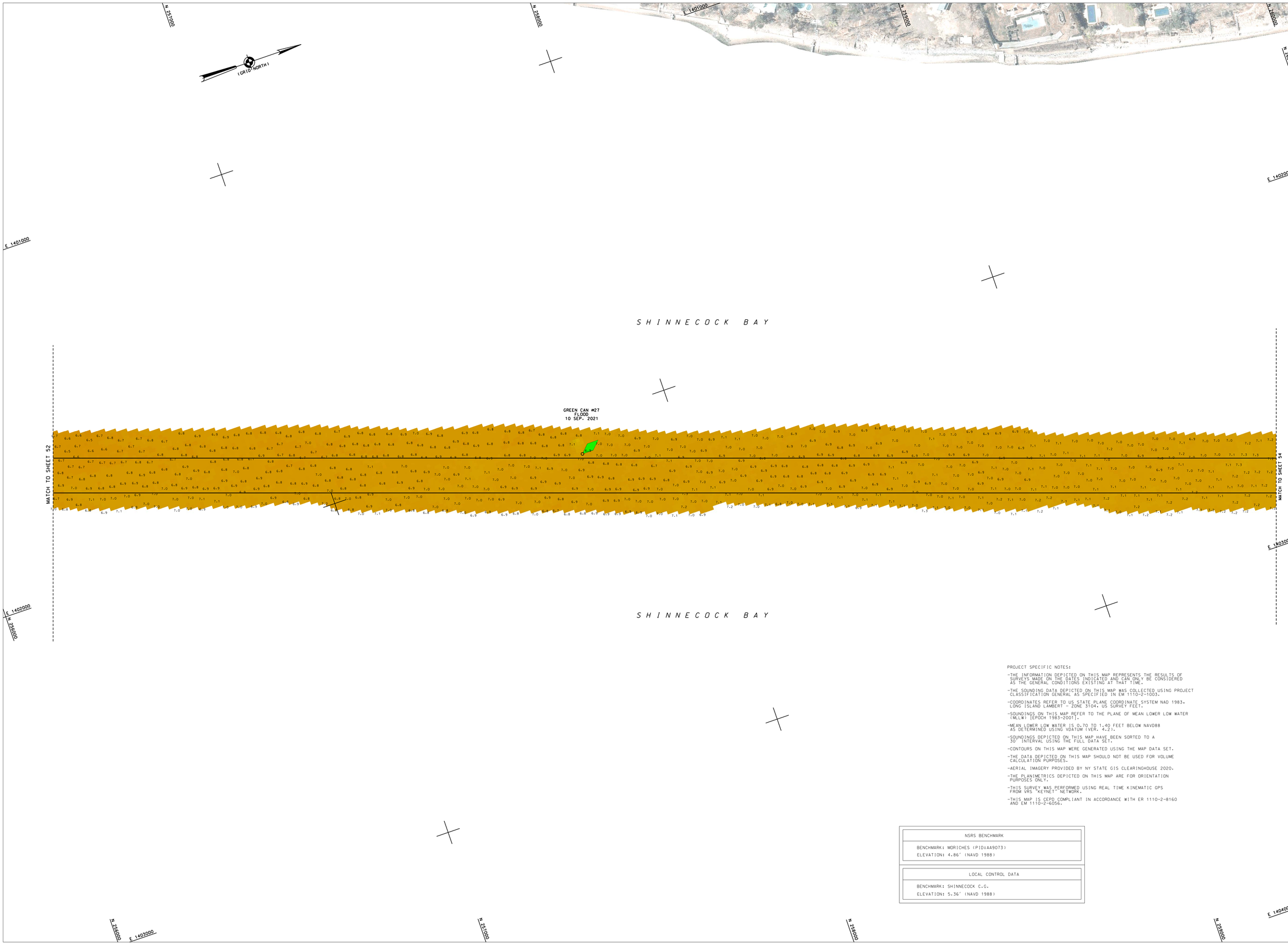
VH-152

SHEET 52 OF 55

REQ NO./FILE NO.: 5082

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 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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).
- SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 NY STATE GIS CLEARINGHOUSE 2020.
- THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
- THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KEYNET" NETWORK.
- THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: SHINNECOCK C.G.
ELEVATION: 5.36' (NAVD 1988)

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

ROGERS SURVEYING, PLLC
2429 Arthur Kill Rd.
Staten Island, N.Y. 10309
(718) 447-2151
www.rogerssurveying.net

DATES OF SURVEY: 10 AUG. - 07 OCT. 2021

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:

REQ NO./FILE NO.: 5082

APPROVED: D. ROGERS — FIELD CARTOGRAPHER
APPROVED: M. FORTE — CIVIL ENGINEERING TECHNICIAN
APPROVED: P. BHADUR — LEAD CARTOGRAPHER
APPROVED: J. MRAZ — DEPUTY CHIEF OF SURVEY
DATE: 12 NOV. 2021

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

VH-153

SHEET 53 OF 55

REQ NO./FILE NO.: 5082

U. S. ARMY

CORPS OF ENGINEERS
NEW YORK DISTRICT

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OPS

APPROVED: D. ROGERS
APPROVED: N. FORTE
APPROVED: P. BHADUR
APPROVED: J. MRAZ

DATE: 12 NOV. 2021

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

VICINITY OF PATCHOGUE, N.Y.

CONDITION SURVEY

VH-154

SHEET 54 OF 55

SCALE:
ONE INCH = 100 FEET

FIELD BOOKS:

DATES OF SURVEY:
10 AUG. - 07 OCT. 2021

REQ NO./FILE NO.: 5082

ROGERS SURVEYING, PLLC
2435 ALBANY POST RD.
SUITE 1
BUILDING NO. 1
MONTROSE, NY 10548
(718) 447-7201
www.rogerssurveying.net

RED NO./FILE NO.: 5082

E 1401000
E 1402000
E 1403000
N 262000
N 261000
N 260000

RED NUN #30
FL R 4s
10 SEP. 2021

MATCH TO SHEET 55

MATCH TO SHEET 53

35S
35N
34N
34S

SHINNECOCK BAY

SHINNECOCK BAY

(GRID NORTH)

PROJECT SPECIFIC NOTES:
-SURVEY SOUNDINGS ON THIS MAP REPRESENT THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
-CLASSIFICATION GENERAL - AS SPECIFIED IN EM 1110-2-1003 USING PROJECT DEPTH.
-COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983, LONG ISLAND LAMBERT ZONE 3104. US SURVEY FEET.
-CONTOURS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) EPOCH 1983-2001.
MEAN LOWER LOW WATER IS 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM VERSION 3.4.
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 30' 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 CALCULATIONS.
-AERIAL IMAGERY PROVIDED BY NY STATE GIS CLEARINGHOUSE 2020.
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS TECHNIQUES REFERENCED TO NAD83.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NOAA BENCHMARK

BENCHMARK: MORICHES (PID:AA5973)
ELEVATION: 4.46' (NAVD 1988)

LOCAL CONTROL DATA

BENCHMARK: SHINNECOCK C.G.
ELEVATION: 5.36' (NAVD 1988)

CORPS OF ENGINEERS

RED NO./FILE NO.: 5082

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.
VICINITY OF PATCHOGUE, N.Y.
CONDITION SURVEY

VH-155
SHEET 55 OF 55

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

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-RS

APPROVED: D.A. ROGERS — CHIEF, SURVEY SECTION
APPROVED: M.A. FORTE — CHIEF, PLANNING, PROGRAMS & PROJECT MANAGEMENT DIVISION
APPROVED: P. BHADURI — CHIEF, OPERATIONS DIVISION
APPROVED: J.F. WRAZ — DEPUTY CHIEF OF SURVEY
DATE: 12 NOV. 2021

ROGERS SURVEYING, PLLC
2424 Arbor Blvd.
Uniondale, NY 11553
(516) 481-6272
www.rogerssurveyingpllc.com

US ARMY CORPS
OF ENGINEERS
NEW YORK DISTRICT

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:

DATES OF SURVEY: NOV. 07, 2021 TO NOV. 07, 2021

RED NO./FILE NO.: 5082

MATCH TO SHEET 54

E 1401000
E 1400000
E 1399000
N 265000
N 264000
N 263000

GREEN CAN #31
EBB
10 SEP. 2021

RED NUN #32
EBB
10 SEP. 2021

RED W/LIGHT #34
EBB
10 SEP. 2021

36N
37S
37N
38S
38N

SHINNECOCK BAY

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 0.70 TO 1.40 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 4.2).
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO 50' 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 NY STATE GIS CLEARINGHOUSE 2020.
-THE SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS PURPOSES ONLY.
-ALL PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM VRS "KENET" NETWORK.
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: SHINNECOCK C.G.
ELEVATION: 5.36' (NAVD 1988)

BENCHMARK: SHINNECOCK C.G.
ELEVATION: 5.36' (NAVD 1988)

U. S. ARMY
CORPS OF ENGINEERS